1890 THE ALDINE PATENT 1890

FIRE-PLACE

The only Perfect Hard Coal Grate on the market. It has the Return-Draft Principle of a hard coal Stove embodied in an open Fire-Place, and is a Perfect Ventilator.

While designed for Hard Coal, it burns Soft Coal, Gas Coke, Wood, Gas or Peat with Equal Economy.

AWARDED THE Highest Diploma FOR HEATING APPARATUS AT THE STATE FAIR AT Lansing; ALSO AT THE WEST MICHIGAN FAIR 1889 IT IS AN Air-Warming AND Air-Circulating Open Fire-Place. ITS SLOW AND CONTINUOUS Combustion gives far Better Results than a Hard Coal Stove.

The above represents the ALDINE and FACE PLATE No. 2. The ALDINE is the only open Fire-Place that can be Piped to a common chimney with as good results as if set in a chimney.

RECEIVED THE ONLY MEDAL FOR BEST HEATING APPARATUS over all Competitors at Piedmont Exposition ATLANTA, GA. 1889. Unlike any other Grate this is ECONOMICAL AS WELL AS SANITARY In its Results. NEARLY PERFECT COMBUSTION OF HARD COAL is secured and 90 PER CENT. of the heat is utilized.

MANUFACTURED BY

THE ALDINE MANUFACTURING COMPANY

GRAND RAPIDS, MICHIGAN.

A. D. RATHBONE, President — L. H. WITHEY, Vice-President. — J. T. PHILLIPS, Secretary and Treasurer.

DEAN PRINTING CO., GRAND RAPIDS.

THE HEATING OF DWELLINGS has for years been the subject of careful study and investigation. The end aimed at has been a method which would insure an even and proper temperature and pure air, with the greatest economy of fuel. In the cold climates of our Northern States the primitive open fire-place, confessedly the most perfect ventilator, giving the most cheerful and delightful fire, proved wholly insufficient for comfort and extravagantly wasteful of fuel. Ninety per cent. of the heat produced passed up the chimney. The necessity for more heat, at less cost, gave birth to the invention of the air-tight stove, which, offering no means of escape for the vitiated air and poisonous gases which it helps to generate, is a constant menace to health.

The stove has been so long and loudly denounced by the best physicians, that in all but the cheapest modern dwellings it has given place to hot air furnaces and steam. Yet these methods, without some independent system of ventilation, all of which are expensive and unsatisfactory, are open to the same objections as the stove; and in the more luxurious homes, where economy need not be studied, they are invariably supplemented by open fire-places for ornament and ventilation.

Inventors have long struggled with the problem of securing the perfect ventilation of an open fire, with adequate heating power and economy of fuel. This problem has at last been successfully solved. **The Aldine Fire-Place** satisfies all requirements. It is a perfect ventilator, an admirable heater, and the most economical consumer of fuel ever placed upon the market.

The common grate, in general use, heats the room by direct radiation alone. THE ALDINE FIRE-PLACE, in addition to this direct radiation, by means of its air-circulating power, distributes more heat through the room by indirect radiation from its heating flues than can be obtained from the most improved pattern of stove using the same amount of fuel. It is well known that there are grates upon the market at the present time designed to accomplish a portion of the results that were aimed at in the construction of THE ALDINE IRON FIRE-PLACE, but they, while possessing many good qualities, have fallen far short of our aim in view. Some, in order to obtain a circulation of air, take their draft from an out-door opening back of the grate, drawing in the cold air and passing it over the grate to send it warm into the room. While this plan may at first appear proper, it is too expensive, as too much heat is wasted in constantly warming the cold out-door air; and furthermore, if the fire goes down at night, or at any time when no one is present to care for it, the cold air constantly coming in at the opening will in a short time lower the temperature of the room to the same degree as that outside. No house is built so that *no* fresh air can enter, and it is entirely unnecessary to construct openings to admit more cold air than is needed for health and comfort.

It has been scientifically determined that a given amount of coal will produce more units of heat when burned at a cherry-red heat than at any other temperature; and one of the marked characteristics of this Fire-Place is that it consumes the coal at that most economical degree of heat. By reason of this, and of the continuous warming of the air constantly moving through the heating chamber, a more even and satisfactory temperature can be maintained throughout the room with less consumption of coal than by any other method.

In this Fire-Place the combustion of coal is nearly perfect. A large proportion of the valuable heat-bearing gases which usually pass up the chimney, are consumed in the flues.

SOME OF THE ADVANTAGES CLAIMED.

Among the advantages claimed for **The Aldine Iron Fire-Place** over other heaters may be mentioned the following:

1. It is a perfect ventilator.
2. It is a perfect distributor of heat, and
3. It produces the most perfect combustion of fuel; and therefore,
4. It is the most economical.
5. It keeps the air of the room at an even and proper temperature from floor to ceiling.
6. It is a perfect hard coal burner.
7. Burns soft coal, gas, coke and wood equally as economical.
8. The designs are new, attractive, unique and artistic.
9. Its use insures health, comfort, and for economy we challenge the world.
10. It will keep fire through the night equally as well as a hard coal stove.

It is only necessary to be replenished with hard coal twice a day to insure its constant and steady working during a day of twenty-four hours, and compares with other grates as the modern return draft coal stove of to-day compares with the direct draft coal stove of twenty-five years ago.

11. One advantage of **The Aldine Iron Fire-Place** is that it can be set at less cost and trouble than any other.

Being in one piece when mounted, it can be easily slipped into the opening under any square-faced mantel. When the front is hung on and the hearth in place it is ready for use. The only local connection essential to its perfect operation is a good chimney, which may be in the next room, or even several rooms removed from the Grate itself. The connection being made, as with a stove, with ordinary stove pipe. The heat from all grates tends to deface the finish on wood mantels. To obviate this, we furnish, when desired, a neat hood, which reflects the heat from the mantel.

See what Wm. Harrison says about the "Aldine." He has six Grates—heats his entire residence.

Office of WM. HARRISON,
Manufacturer of all kinds of Farm and Freight Wagons,
GRAND RAPIDS, Mich., March 3, 1888.

To Aldine Mfg. Co., City:

Gentlemen—In answer to your enquiry as to how I like my Grates, will say that they have come through the winter in better credit than I anticipated. We have had plenty of heat of most pleasant kind; our rooms have been more comfortable than ever before, and we would not go back to coal stoves for any consideration—the air in our rooms is so much better than with stoves.

I am, with much respect,
WM. HARRISON.

AMERICAN HOTEL,
Fred Hotop, Prop.
KALAMAZOO, Mich., Sept. 28, 1888.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—I have put in one of your Aldine fire-places, and I must say that I am very much pleased with the same. It gives a great deal of heat, and while it gives a good deal more than any old-fashioned fire-place, it certainly does not consume as much fuel, and it operates as a ventilator just the same, if not better. Respectfully,
FRED HOTOP.

MAYWOOD, Ill., Dec. 10, 1888.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—In reply to your favor of some time since, will say that I have delayed replying to same until this late date, as I was anxious to give your fire-place a fair and impartial trial, and at this time we have not had any weather which would give it a chance to assert itself. Although I have a furnace in my house, I have not had occasion to use it for an hour this winter, as the fire-place keeps dining-room, parlor, and bed-room up to an average of 70 degrees Fahr. night and day, and that on a consumption of only two scuttles of coal for each 24 hours. For heating, ventilating, and economizing fuel, I consider it to be perfect. My only regret is that I went to the unnecessary expense of putting in a furnace, as I am sure one or two more grates would have warmed my whole house, besides giving us that sanitary condition so indispensible to good health. Very truly yours,
G. S. CREGO.

Established 1863.
MORLEY BROTHERS,
Hardware.
EAST SAGINAW, Mich., 10-30, '88.

The Aldine Grate Co., Grand Rapids, Mich.:

Gentlemen—You will remember the Grate you sent us to be set in the house of a gentleman who wished to heat his house with one stove, with the aid of this Grate. Well, he has given the Grate a thorough test, and is entirely satisfied with it in every respect excepting one, and that is, he cannot check it. He says no matter how he manages it, it will burn three scuttlefuls of coal a day, and while he does not object to the amount of coal it consumes, although your representative said it would run on one scuttleful, he wants it so he can regulate it. As it is now, he often has to get up in the night, and open the doors, and heat the door-yard, in order to cool off his house. This man's Grate is set up with 6-inch pipe and two elbows, and while he has a good draft in the chimney, it does not seem as though the draft was any too good, and it would rather seem as though it would not burn as briskly on account of being put up in this way. As far as heating is concerned, he says it works all right, and is just the thing for cold weather, but for spring and fall, he says it is not a success. These are the opinions of a customer who has experimented with our first Grate in this city, and we would like to have your ideas on this opinion. "This 'feller' always kept fire pot full and damper open."

Yours truly,
MORLEY BROTHERS.

BETHLEHEM, Pa., Nov. 5, 1888.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Fire-Place you put in our dining room gives very good satisfaction. It furnishes all the heat necessary in the dining room and besides, heats a second and third story room. The fire is easily kept over night, and taking it altogether it is the most satisfactory open fire-place that can be desired.

I am, very truly,
F. W. LINBACH.

GRAND RAPIDS, Mich., Feb. 25, 1888.

Aldine Manufacturing Co.:

Gentlemen—It is with pleasure that I add my testimonial in regard to the many good qualities of the Aldine Fire-Place. I have used one since early fall and think I have given it a good test. It has done all that you claimed it would, and in fact, more. It has cost me about 20 per cent. less to heat the same amount of room than it did with a coal stove. It keeps the temperature of the room the same in every part and cold feet are unknown where the Aldine Fire-Place is used. It takes up less room, is less trouble to take care of than a coal stove, and will do more work at less expense. Very respectfully,
J. KNOWLEN, 280 12th Ave.

Office of ARCHITECTS JOSSELYN & TAYLOR,
CEDAR RAPIDS, Iowa, Nov. 28, 1888.

Aldine Manufacturing Co., Grand Rapids, Mich.:

Gentlemen—I am well pleased with your fire-place. It is clean, easy to manage, no trouble to keep continuous hard coal fire, and heats splendidly. My house is thoroughly warmed by steam and the rooms are opened together, so it is impossible, with the test given it, to say as to its qualities as floor warmer and equalizer, but I can recommend it as first-class in every respect. Sickness has prevented an early reply to yours of 1st inst. Respectfully,
EUGENE H. TAYLOR.

Office of THE FARM IMPLEMENT NEWS CO.,
Publishers of Farm Implement Reference Book with Attorney's List and Farm Implement News.
95 Fifth Ave., CHICAGO, Ill., Nov. 9, 1888.

Aldine Manufacturing Co., Grand Rapids, Mich.:

Gentlemen—I purchased two of your iron fire-place grates this summer for my house at Evanston, Ill. One finished in Brass and the other in Bronze. I must say that we are very much pleased with the operation of the grates. They give good ventilation in the room, throw out more heat than an ordinary grate, and the appearance is decidedly in their favor. I shall recommend them to any of my friends who may need a first-class grate. Wishing you further success in your efforts, I am, Yours very respectfully,
A. M. LESLIE, Editor.

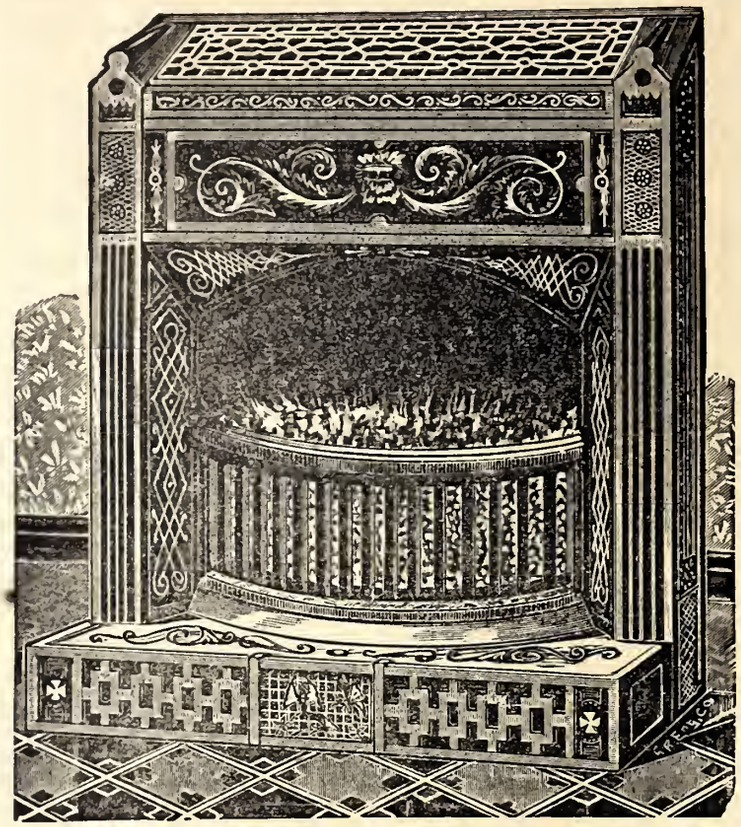

PLATE NO. 22.

THE ALDINE FIRE-PLACE is made of the best material, and to last a life-time. It has no fire-brick to burn out, nor can the castings warp or burn out, as the cold air circulates over one side of every square inch of heated surface in its make-up, as indicated by arrows in plate No. 20.

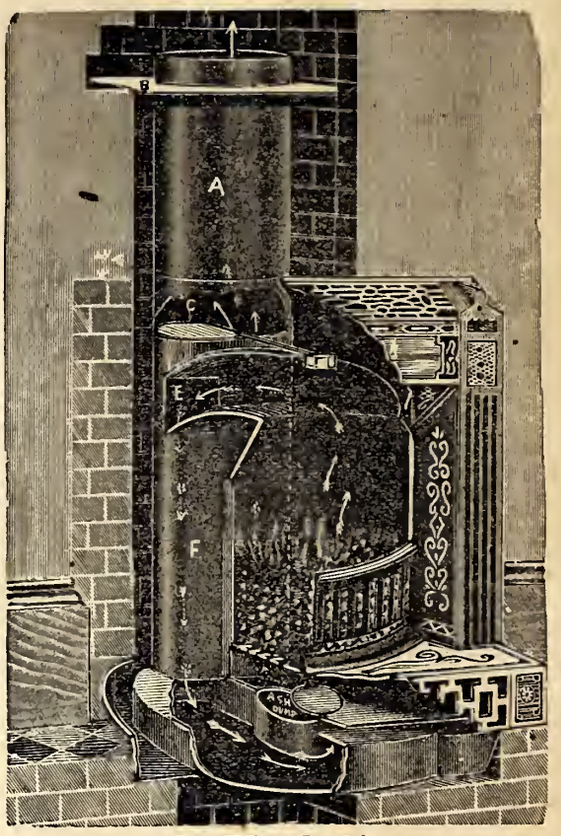

PLATE NO. 21.

Plate No. 21 illustrates one of the distinctive features of this Fire-Place: When the damper C is closed, as in this plate, the products of combustion pass into the flue at E, down F, and entirely around the heating base, and thence return through a flue on the other side into the chimney through A, thus passing over a radiating surface of thirty-five square feet, and so far utilizing the heat from the fire that but a small per cent. of it is carried up the chimney.

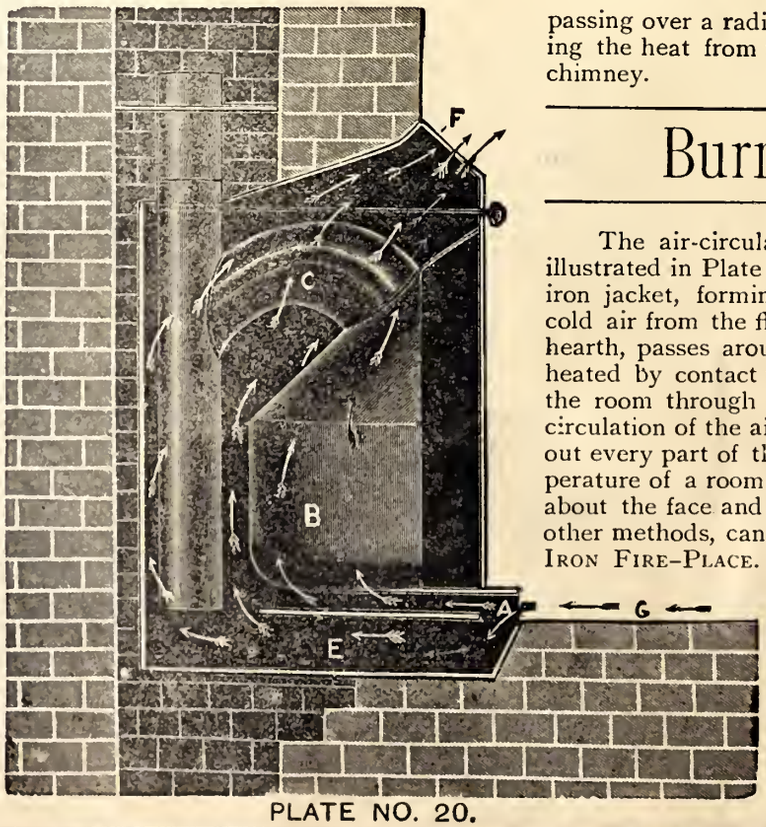

PLATE NO. 20.

Burns Hard or Soft Coal.

The air-circulating and heat-distributing powers of the Fire-Place is illustrated in Plate No. 20. The grate, ash-pan and flues are encased in an iron jacket, forming an air chamber about the radiating surfaces. The cold air from the floor enters through the openings A at either side of the hearth, passes around the fire-box B and the flues E and C, and, becoming heated by contact with these radiating surfaces, rises and passes out into the room through the register at F, thus keeping up a rapid and constant circulation of the air, and distributing the warm air most effectually throughout every part of the room. By no other method of heating can the temperature of a room be kept so even. The unpleasant sensation of hot air about the face and cold air about the feet, so often felt in rooms heated by other methods, can never be experienced in rooms heated by THE ALDINE IRON FIRE-PLACE. Notwithstanding the rapid circulation of the air, there are no draughts, for the reason that there is an even and uniform movement of the air from all parts of the floor toward the Fire-Place.

A PERFECT VENTILATOR.

ALBERT LEA, Minn., Nov. 11, '89.
ALBERT LEA COLLEGE,
Rev. R. B. Abbott, D. D., Pres't.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire-Place which you shipped to me last July has been put in place, and gives entire satisfaction. My family would not exchange it for any other we have ever seen. The return draft saves and throws into the room a large percentage of tne heat that with other grates would escape up the chimney. I shall recommend the Fire-Place to others. Yours very truly,

R. B. ABBOTT.

GRAND RAPIDS, Mich., February, 1888.

Mr. L. H. Withey, Vice-Prest. Aldine Mfg Co.:

Dear Sir—Last fall I had your Company put an Aldine Grate in my residence, which we have kept running night and day with as little trouble as a base burning coal stove, equalizing the temperature. We secure warm floors where the heat is most needed; and as a ventilator, consider it the best thing on the market; keeping continuous fire with slow combustion of fuel; has proved very economical and are pleased with it. Respectfully yours,

JAMES L. PITTS,
Prop. Grand Rapids Saw Works.

FOURTH NATIONAL BANK,
Columbus, Ohio.

Aldine Manufacturing Co.:

Gentlemen—On September last we ordered an Aldine Fire Place from you for use in our bank. We were led to do so from the representation we had received of its many advantages and the principles and merits claimed for it over direct draft grates. We are pleased to say that we have not been disappointed in our expectations. The uniform temperature and purity of air secured demonstrates that it is a good ventilator. Its warm air circulating principle produces an equalized temperature and warm floors, and there is an important saving in the consumption of fuel. As our floors are of tile and difficult to warm, we find a gratifying change in the comfort of our room. The grate keeps a continuous fire, night and day, is cleanly, and requires but little fire. We think it the best grate on the market.

Yours truly, W. S. IDE, Pres't.

GRAND RAPIDS, MICH., Jan. 17, 1890.

Aldine Manufacturing Co.:

Dear Sirs—I take great pleasure in expressing my entire satisfaction with the Aldine Grate. I have found it more than equal to your claims, warming the floors, burning soft coal as well as hard, and, without exception or allowance, the best grate that I have ever used, both for heating qualities and saving in fuel. Yours truly,

G. H. COBB,
Pastor Westminster Presb. Church.

PEEKSKILL, N. Y., Jan. 11, 1890.

Aldine Manufacturing Co.:

Gentlemen—The Aldine was duly received and placed in position. Previous to receipt of the Aldine I was obliged to keep my furnace in full blast in order to have my house comfortable, but now the register in my dining room (where the grate is placed) is entirely cut off, being too warm to use in connection with the fire place heater. In addition to my dining room, the sitting room on the first, and bed-room and bath room on the second floor, are also kept comfortably warm by its use, and there is a continual circulation of warm air about the floors, which I have never noticed from any other grate. As an economizer of coal it deserves the greatest praise. As a ventilator it cannot be too highly recommended, and as an ornament is equal to the best.

In conclusion, the Aldine is a "Gem of priceless worth," and I shall take great pleasure in recommending it.

Very truly, J. H. PHYFE,
Asst. Supt. N. Y. C. & H. R. R'y.

Office of S. L. INGALLS,
Insurance Agent,
AUGUSTA, ARK., Nov. 5, 1889.

Aldine Manufacturing Co.:

Dear Sirs—Entering upon my second season's use of the Aldine Fire Place, it gives me pleasure to express the continued satisfaction from its use. As a heater and ventilator it seems as near perfection as can be obtained. We have the Fire Place in use in reception hall, library and bed-room, that in the bed-room being in constant operation, and the fire last season not going out from early in November until early in March, and with no more trouble than to put on coal at bed time and closing the draft, and in the morning to shake down the ashes and replenish the fire.

Yours truly, S. L. INGALLS.

Office of W. R. MABLE,
Dealer in Lumber, Lath, Shingles, Doors, etc.
DELHI, N. Y., Jan. 7, 1890.

Aldine Manufacturing Co.:

Gents—The two Aldine Grates are set and work to my entire satisfaction. If I had not contracted to heat the entire house with steam before I started the Grates I should not now, as I think I could heat the house sufficient with the two grates. I am satisfied they will do more than you claim for them in regard to heating, besides they are an ornament to any house. I would not have them taken out for six times what they cost me. Wishing you success in the sale of the Aldine Grate, I am,

Yours very truly, W. R. MABLE.

RAYNERTON, N. Y., Jan. 8, 1890.

Aldine Manufacturing Co.:

Gentlemen—In looking over the Century Magazine last fall I saw an advertisement of your fire heater. It impressed me so favorably that I ordered one at once. As I had never seen or heard of one before, I set it up according to directions sent by you. I used it for a few weeks and it gave me such good satisfaction that I ordered the second one, and after having used two of the best base burning stoves made in the city of Troy, will say that the Aldine is the most complete arrangement I ever saw. In fact its good qualities are too numerous to mention. Yours respectfully,

ELI PERRY.

GRAND RAPIDS, MICH., Jan. 17, 1890.

Aldine Manufacturing Co.:

Gentlemen—Complying with your request, I have to report, that the Aldine Fire Place which you placed in my residence, and which I have operated during the entire winter in place of the Baltimore Heater removed, is giving me the very best of satisfaction. I get very much more heat from the fuel consumed, than from the Baltimore Heater, besides warm floors and the sanitary ventilation, conditions not to be had through the use of the Heater. It will keep fire throughout the night, equally as well as a base burner, and forms a handsome piece of furniture for the room in which it is placed. Very respectfully,

MRS. E. HINSDILL,
61 Paris Avenue.

GRAND RAPIDS, MICH., Jan. 30, 1890.

Aldine Manufacturing Co.:

Gentlemen—When I decided to put a grate in my sitting room, I made a thorough investigation of your Aldine Fire Place. The principles involved in its construction, seemed to me to take precedence over all competitors, and I ordered one put in. I am most happy to state, that after five months trial, my expectations have been fully realized. We would not have it taken out for many times its cost.

Very respectfully, P. V. FOX.

VERMILLION, DAK., Dec. 30, 1889.

Aldine Manufacturing Co.:

Gentlemen—In reply to yours, would say, that I am more than pleased with the Aldine Fire Place. We heat two rooms, one 17x20, and one 14x15, ten foot ceilings, so they are perfectly comfortable, with no more coal or wood than we burned in our base burner and did not heat more than half this space. I take pleasure in showing it, and every one that sees it says it is a beauty, I can cheerfully recommend it to any one wanting an ornament as well as a perfect heater. Sincerely yours,

C. A. MAXON, Dentist.

From the Silver City Enterprise.

DEMING, N. M., Dec. 24, 1889.

Aldine Manufacturing Co.:

Gentlemen — While your Mr. Leonard was in Deming recently, I placed in his hands a circular illustrating the Aldine Fire Place, manufactured by the Aldine Manufacturing Co., of Grand Rapids, Mich. I have this article of home comfort in my home, and have tested its merits thoroughly. It is all that it is claimed to be. I am so well pleased with same that I feel it a duty on behalf of the public to call attention to it. It certainly is the best heating and ventilating invention out. Being in ill health, I conceived the idea of fitting up a room for myself with the special object in view of creating, as far as possible, perfect sanitary conditions. With this fire place I have succeeded quite beyond my expectations. Besides being the most economical heater, combined with the cheerfulness of an open fire place, it produces warm floors, uniform temperature throughout the entire room, and the most perfect and healthful ventilation. Any one desiring to see it in operation and will call at my home at Deming, I will take pleasure in explaining its merits and the principles on which it works. Any one desiring to obtaining complete information on the subject, can, by sending a postal card to the above named Company, obtain circulars giving styles, price lists and full illustrations and instructions.

WARREN BRISTOL.

GRAND RAPIDS, MICH., Jan. 17, 1890.

Aldine Manufacturing Co.:

Gentlemen—We have had in operation in the "Livingston" for the past two seasons, 8 of your Aldine Fire Places, and without exception consider the Aldine has no equal. We have so little trouble in operating them, keeping a continuous fire night and day with much less fuel than we expected, by drawing the cold air from the floors, warming it and passing it out into the room again, thus producing a constant circulation of the air throughout the different floors with a very uniform temperature and the most pleasant and agreeable atmosphere. This is frequently remarked upon by our guests. The excellent ventilation and purity of air afforded by the Aldine are essential points to be obtained in sanitary heating. We cheerfully recommend the Aldine to all our friends. Very respectfully,

Mesdames WHITE & MOSHER,
"The Livingston," Grand Rapids.

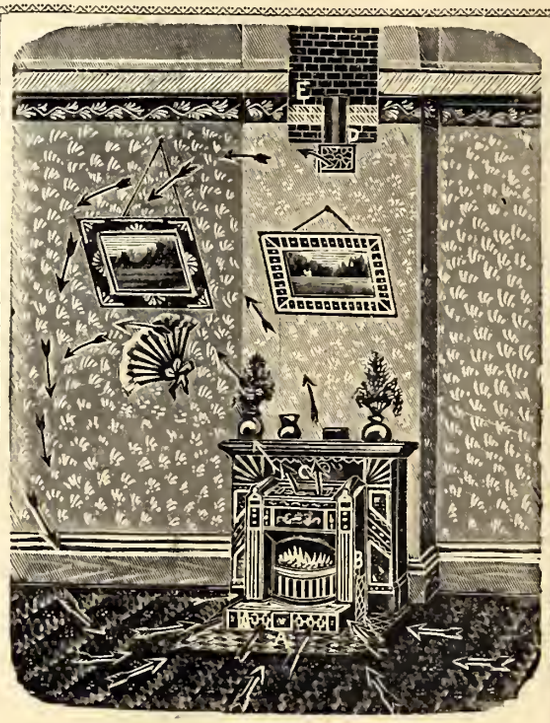

PLATE NO. 1.

This represents the ALDINE FIRE-PLACE set in a chimney like an ordinary grate, with the smoke pipe running up inside the chimney flue, as shown at D. The flue is stopped at E, so as to throw the full draft up on the smoke pipe. The arrows represent the cold air from the floor passing into the air chambers at the base of the grate and being emitted well heated from the register at the top of the grate. The air also passes into the fret work in the sides of the grate, surrounds the outer jacket and smoke pipe and rises to the register near the ceiling, from which it is sent back into the room heated.

BROOKLYN, N. Y., Jan. 2, 1890.

Aldine Manufacturing Co.:

Gentlemen—It gives me pleasure to testify to the excellence of your fire place. It fully meets your claims as a ventilator, distributor of heat, and on the complete and economical combustion of fuel, hard coal having been used. In short, I regard the Aldine as a remarkably good ventilating and heating open fire grate, after having examined a number of the more recent productions which do not equal the Aldine in its especial virtues. Very truly yours,

T. M. LLOYD, M. D.,
125 Pierrepont St.

GRAND RAPIDS, Jan. 11, 1889.

Aldine Manufacturing Co.:

Gentlemen — The Aldine Fire Place we purchased of you last Spring, has given us the best satisfaction. During the mild weather, we have not always run the grate with our steam and hot air furnace, and at such times readily notice the difference in the atmosphere from what it is when the Aldine is running in connection with the furnace. We find it is economy to run them together, requiring much less fuel in the furnace, while a good fire in the grate in the morning, and replenished in the evening gives us a fire for the 24 hours, and the Aldine affords us the most pleasant condition of heat and atmosphere we have ever had in our residence. We gladly recommend it to every one.

Yours truly, CHAS. GRUELICH,
Cor. California and W. Broadway.

CHICAGO, ILL., Nov. 18, 1889.

Aldine Manufacturing Co.:

Gents—Am glad to let you know your Fire Place heater pleases me very much and is all it is represented, and fully worth what we paid for it merely as a ventilator. Will recommend it. Respectfully,

CHAS. RAISER,
64 Clybourn Av.

SOUTH FARMINGHAM, MASS., Nov. 12, 1889.

Aldine Manufacturing Co.:

Gents—The Aldine, size 22, I placed in one of my tenement houses. I understand the tenant is very much pleased with it Respectfully yours,

D. T. BRIDGES.

EAST RANDOLPH, N. Y., Nov. 16, 1889.

Aldine Manufacturing Co.:

Gents—Yours received asking how I like Aldine Grate. I answer, it is splendid. It does all you said it would do. I have used wood and hard coal in the grate and one works as well as the other. It is far ahead of any coal stove I ever saw for real comfort. Cold feet are unknown at my house now. Before putting in the Aldine I took especial pains to examine many different grates; the Aldine beats them all. I consider it as nearly perfect for a heater, for a ventilator, for an equalizer of temperature, as any one could desire. I am perfectly satisfied with it in every respect. With regards, I am, Yours very truly,

DR. J. H. SACKRIDER.

REGISTER'S OFFICE,
WASHINGTON, D. C., Nov. 3, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—The Aldine Fire Place takes at sight, and I am glad to say gives perfect satisfaction. Its merits warrant my fullest approval and recommendation, and I would say to all lovers of warm floors, by all means get the Aldine. The manner of taking the cold air from the floor and passing it back into the room warmed, equalizing the temperature, is unsurpassed. I know of no other process of heating that equals the Aldine in making all parts of the room as comfortable as at the point where the heat is generated. Economical in the use of fuel, perfect in ventilation, cleanly in its care, and no trouble in keeping fire through the night. All things considered, I believe the Aldine to be the coming grate. Yours respectfully,

A. B. CHATFIELD.

Office of WM. H. SMITH, SUPT. REPAIRS,
N. Y. C. & H. R. R. R., 306 W. 30th St.
NEW YORK CITY, N. Y., Nov. 10, 1888.

Aldine Manufacturing Co.:

Sirs—I have for two years been looking for an open grate that would act as ventilator as well as heater, for a room in which an invalid mother spends her whole time, and where she has been a constant sufferer from drafts and cold feet, so that it was always necessary even in the mildest weather to keep all the doors and windows closed. On receiving your catalogue and examining the plates I thought that I had found just what I wanted, and in this I was not disappointed, for I find that it is a perfect ventilator. The air in the room in a morning is pure and sweet, where before it was rancid and very unpleasant. The floors are warm, for before the fire had been lit an hour my mother, who is blind, exclaimed: "O! my feet are getting quite warm," and she has not complained of cold feet since, no complaint is now made of drafts, and the doors are kept wide open. In regard to economy in fuel, it has surprised us, I never thought that so much heat could be got from so little coal. It is also free from dust (which has always been my objection to an open grate) and it is not the slightest trouble to keep it in night and day. In fact it is A1, and we would not be without it, and I expect to send for some more in a short time. Yours,

W. H. SMITH.

THE AULTMAN & TAYLOR CO.
MANSFIELD, OHIO, Nov. 12, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sirs—The best is always the cheapest. My experience with the Aldine Grate is of the very best. Good heater, ventilator, equalizer of temperature, and warm floors. Keeps fire all night without trouble. Put on the coal and you will always have good results. The only fault I can find is that my finances will not let me buy another one.

Yours truly, GEORGE KNOFFLOCK.

Office of BELGIUM CONSUL,
E. FERRAND & CO., Agents, 151 Griswold St.
DETROIT, MICH., ETATS UNIS, Feb. 20, 1888.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Replying to your favor 17 inst. as to how we like the "Aldine," will say that it affords us satisfaction to say that it is the cleanest, most economical grate we have ever used; my wife likes it so well, she says we ought to have one in every room in the house. We burn hard coal, same as in the stoves, and find it keeps cold air from off the floors, equalizes the temperature as you claim for it, and will keep fire over night, thus giving us that much needed ventilation at night while we sleep. We recommend the Aldine, trusting others may fine it as highly satisfactory.

Yours truly, E. FERRAND.

GRAND RAPIDS, MICH., Feb. 21st, 1888.

Aldine Mfg. Co., Cor. Shawmut and Court St., City:

Gents—In reply to your inquiry, asking "If our Aldine Grate works all right," would say indeed it does; "what a nice fire that is," is an expression most always made by our friends who call, and we all appreciate the fact that the grate is a valuable addition to the comforts of our home. The fire has not been out since started in the fall.

Yours truly, O. F. POWELL.

Office of BERKEY & GAY FURNITURE CO.,
GRAND RAPIDS.
GRAND RAPIDS, MICH., Feb. 20, 1888.

Aldine Maufacturing Co., City:

Gentlemen—We are highly pleased with the Aldine Grate placed in our show-room some time since. It seems to work nicely, and is giving very good satisfaction.

Very respectfully,
JOHN A. COVODE, Sec'y.

Office of JENNINGS & SMITH, 38 and 40 Lyon St.,
Mfrs. of Flavoring Extracts, Baking Powder, etc.
GRAND RAPIDS, March 2, 1888.

Mr. A. D. Rathbone, Prest. Aldine Mfg. Co.:

Dear Sir—We have been using one of the patent Aldine Fire Places in our office the past winter and have tested it most thoroughly, burning at different times, hard coal, soft coal, crushed gas coke and wood. Our office is 16 x 24 feet, with a 14-foot ceiling, with large front show windows, yet in our most severe weather we have had no trouble in keeping it in a comfortable condition by removing the cold air from the floor, thereby getting up a circulation. It has equalized the temperature so that there has not been over four degrees difference between the floor and the ceiling, while the atmosphere is kept pure by its splendid ventilation, and is the most economical Grate to run, keeping a continuous fire; in fact combining more merits than any other grate or stove we have ever seen.

Very truly yours,
JENNINGS & SMITH.

GRAND RAPIDS, MICH., Feb. 8, 1887.
Aldine Manufacturing Co.:

Dear Sirs—I wish to say to you how much we have enjoyed the Iron Fire Place purchased of you a few months since. Its working has seemed absolutely perfect. For the equal distribution of heat through rooms it surpasses any other grate or stove I have ever used. It keeps our floors so nicely warmed that we are never troubled with cold feet, as we have been heretofore with the usual method of heating. It keeps fire through the night as well as any coal stove I ever used, and in ordinary weather one scuttle of coal is sufficient to run 24 hours.

G. H. DAVIDSON.

CLINTON, Mass., Nov. 12, 1889.
Aldine Manufacturing Company.

Gentlemen—Last spring I received from you a No. 22 Aldine Fire Place. I set it in my sitting room, a room 22x14 feet. The descriptions on paper telling how to set it up looked quite complicated at first, but reduced to practice it is very simple and inexpensive. We have not started our steam as yet, while our neighbors have been running theirs for a month or more. In such weather as we have here in the spring and fall our house is much more comfortable with the heat we get with the Fire Place than where we heat by steam, as it has a wonderful power to ventilate and equalize the temperature through the rooms. I get as perfect combustion of coal as in any stove I ever used, and it is easy to keep a continuous fire. I studied over it some months after reading a description of it in the "Century," and ordered with some misgivings, but as soon as I saw the thing my doubts were gone. I am pleased with the scientific common sense that is put into the construction as well as the practical working of the heater. I can recommend it without any mental reservation.

Yours respectfully,
D. B. INGALLS.

WINONA, Minn., Dec. 20, 1889.
Aldine Manufacturing Co.

Gentlemen—We like your grate very much. Hastily yours,

G. F. CRISE,
Cashier, Merchants' Bank.

BAPTIST MINISTERS' AID SOCIETY,
Of Ohio, Illinois, Wisconsin, Indiana and Michigan,
Treasurer's Office.
FENTON, MICH., Nov. 3, 1888.
Aldine Mfg. Co., Grand Rapids:

The three Fire Places purchased of you and now in operation in the Baptist Ministers' "Home" are giving the best of satisfaction. We find them efficient in equalizing the temperature. Very little trouble, and very economical. I can heartily recommend them to any one desiring to put in grates or fire places as being the most satisfactory of anything of the kind with which I am acquainted.

Very respectfully,
H. B. LATORETTE, Treas.

Office of PETER OSTERHOUT,
Pine Lumber, Commission Merchant, Lath and Shingles.
GRAND RAPIDS, MICH., Feb. 20, 1888.
Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—In reply to yours of the 18th, I will say that we have your "Aldine Grate" in constant use ever since about December 15th last, and am well pleased to say that it gives good satisfaction. It is the poor man's friend. Economy of heat and fuel; neat and clean; no trouble to run it.

Private.—Notwithstanding I have marked the above private, it is all true, with a good *reserve*, as much as might be said.

P. OSTERHOUT.

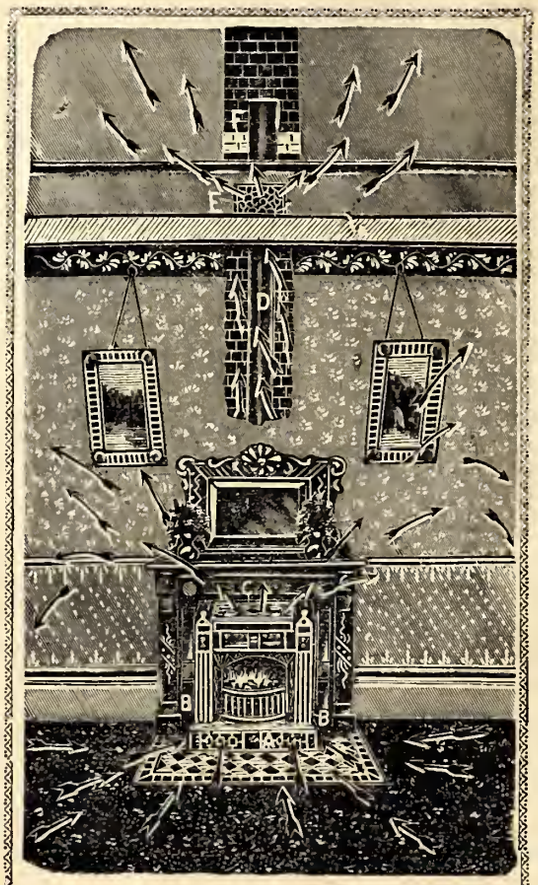

PLATE No. 6.

This represents THE ALDINE FIRE-PLACE set the same as in Plate No. 1, save that the hot air register instead of being placed near the ceiling, is placed in the base-board of the room above. This method is a very economical and effectual way of warming a sleeping room.

CAIRO, N. Y., Jan. 4, 1890.
Aldine Manufacturing Co.

Gentlemen—On April 16th, 1889, you shipped me one No. 22 Aldine Patent Fire Place, on the receipt of which I ordered another, which was shipped by you on May 18th, both of which were soon placed in position for use, one being set in fire place direct, the other it was necessary to pipe over a pair of sliding doors in the parlor to reach the chimney. Their appearance deserves and gets much praise. Can be operated by a child. Are economical, cleanly and cheerful, and what is more, they have done what you claimed, in heating and ventilating.

In our parlor I have discarded a new largest size Gold Coin Base Burner, which I consider one of the best stoves manufactured, and hold the same for sale at half price, for the Aldine.

Yours truly,
F. S. DECKER,
Ex-member N. Y. Legislature.

SKOWHEGAN, Me., Jan. 9, 1890.
Aldine Manufacturing Co.

Gentlemen—I am entirely satisfied with the Aldine Fire Place, and find it in every respect all that you claim for it. It equalizes the heat in the rooms and takes the cold air from the floor. Would not part with it on any account if I could not get another. It works well with either wood or coal. Lots of my friends have been in to see it, and they all say it is splendid.

Yours respectfully,
SMITH WITTIER.

GRAND RAPIDS, MICH., Feb. 23, 1888.
Aldine Manufacturing Co.:

Gentlemen—I had you place one of your Aldine Fire Places in my residence last fall, setting it where we were obliged to pipe same down under the floor and away seventeen feet to the flue. Since its completion have been surprised with the operation of the grate under such unfavorable circumstances, and I have no hesitancy in saying it is the best open grate for all purposes on the market. Using No. 4 hard coal with a slow combustion, keeps a continuous fire with little trouble and is the best ventilator and equalizer of temperature I've ever seen.

Very truly yours, JOHN PERRY,
Ex-Supt. of Police, Grand Rapids, Mich.

THE METROPOLITAN, B. F. BRAZEE, Prop.
Only hotel in the City heated by steam
MANISTEE, MICH., Nov. 11, 1888.

Aldine Mfg. Co., Grand Rapids:

Gentlemen—After using the Aldine purchased of you, all last winter, I have no hesitancy in saying you do not claim too much for it. No room in my house was heated so evenly nor ventilated so perfectly as the room that contained the Aldine. We had occasion to test its value during sickness, also, and found it afforded us sanitary conditions worth many times its cost.

Yours truly, C. C. WARD.

ROCHESTER, MINN., Nov. 7, 1888.

Aldine Manufacturing Co.:

Gents—In reply to yours of the 2d inst., would say, we find our fire place all we could ask of it as a *hard coal* burner —have never tried it with soft coal. It keeps fire as well as any coal stove we ever had, and as to equalizing the temperature in all parts of the room I consider it perfect.

Truly yours, F. A. POOLE.

Rooms of THE LADIES' LITERARY CLUB.
GRAND RAPIDS, MICH., March 5, 1888.

Aldine Manufacturing Co.:

Gentlemen—Last fall we had your Company place two of the Aldine Patent Iron Fire Places in the parlors of the Ladies' Literary Club; and we take pleasure in saying that they have proved very satisfactory. When they are run in connection with our steam heating, in the audience room, find we have only to carry a small amount of steam on account of the circulation produced by these Grates in the removal of the cold air from the floors, bringing down the warm air from the ceiling above, and thus equalizing the temperature. Yours respectfully,

MRS. HELEN G. SMITH, Prest.
MRS. J. G. CAMPBELL, Sec'y.
MRS. H. J. HOLLISTER,
Chairman Building Com.

W. H. PRITTIE & Co., Druggists,
131 and 133 Woodward Av.
DETROIT, April 2, 1888.

Mr. D. Morris, Agt., No. 450 Cass Av., City:

Dear Sir—In reply to your inquiry as to how the Aldine Patent Iron Fire Place was working, would say "just like a *Base Burning Stove*," perfectly satisfactory. Has been in constant and steady use all winter—worked like a charm, seldom out (unless through neglect), and I believe it to be the best grate in the market.

Respectfully, W. H. PRITTIE.

PERE MARQUETTE LUMBER CO., Salt Mfrs.
LUDINGTON, MICH., Nov. 3, 1888.

Mr. J. T. Phillips, Sec. and Treas. Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sir—During a few weeks sojourn at the Morton House in your city during the spring of 1887, I became infatuated with the Aldine Fire Place situated in the reading parlor of said house. The solid comfort that all seemed to extract from it, especially so with the writer, that I resolved to test its quality in my home. I am therefore, at this writing, together with my family, enjoying the comforts to be derived from the use of one of them. I am burning hard coal (coarse stove size) which burns beautifully and economically night and day. It equalizes the temperature so gradually and thoroughly, producing perfect ventilation by drawing into its chambers the cold air from the floor and throwing it out from above heated and renovated. I would not part with it for five times its cost if I could not secure another one in its place.

Yours respectfully,
F. J. DOWLAND,
Sec'y and Treas. of the Pere Marq. Lumber Co.

C. E. LAWRENCE & Co.,
Dealers in Hardware, Steam and Water Fittings.
HILLSDALE, MICH., Nov. 2, 1888.

Aldine Mfg. Co., Grand Rapids:

Gents—This fall I put one of your Patent Aldine Fire Places in place of what I supposed was an ordinary good grate, and am surprised at the very great difference in heat from amount of fuel. I am satisfied that it is all or more than you claim for it. A very powerful and economical heater and ventilator, and needs only to be tried to be appreciated. Very respectfully yours,

C. E. LAWRENCE.

O. C. DAVIS, Plumbing, Gas and Steam Fitting,
203 Sixth Street.
RACINE, WIS., Nov. 3, 1888.

Aldine Manufacturing Co.:

Dear Sirs—Having put up some of your patent grates, I find they are grand floor warmers, clear into the bay windows; are cleanly; require only a small amount of attention, and the air in the rooms is good and wholesome.

Yours respectfully submitted,
O. C. DAVIS.

GRAND RAPIDS, MICH., March 17, 1887.

Messrs. Aldine Manufacturing Co.:

Gentlemen—The Aldine Iron Fire Place you put in our office last fall has given us entire satisfaction in its heating, air circulating and ventilating qualities. It keeps the air fresh, and entirely prevents the close atmosphere produced from a furnace or stove. It keeps fire through the night fully as well as any base-burning coal stove, and requires but about one-half the fuel.

Yours very truly,
ANTI-KALSOMINE CO.,
M. B. Church, Vice-Prest.

J. W. D. SCHOLTE,
Crockery, Glassware and Groceries.
PELLA, IOWA, Dec. 5, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sirs—I have just come home from a three months visit in New York, and find your letter which was not forwarded to me. I can say that your Fire Place does all you claim for it, and I am very well satisfied with the results.

Yours respectfully,
J. W. D. SCHOLTE.

Office of S. J. SWETT,
Architect of Central Vermont Railroad.
ST. ALBANS, Nov. 19, 1888.

Messrs. Aldine Manufacturing Co.:

Gentlemen—Yours of the 15th inst. came duly to hand. Please accept my thanks. Enclosed find check for amount of bill. As I am in a great hurry to day getting ready to go away to-night for a day or two, may I ask you to write such a testimonial as you would like from me, and send it to me to sign. I think I can endorse anything you can say in regard to it. Yours very respectfully,

S. J. SWETT, Architect.

Mr. O. D. Wheeler, of St. Paul, Minn., writes:

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sirs—Yours of the 10th inst. I have not been able to answer sooner. So far as my experience has gone the Aldine is a success. Since you were here and the mistakes in setting up remedied it has worked entirely satisfactorily. One great feature of mine is the fact that it is almost impossible for the fire to go out. No matter how low, you can always start it up. The combustion is slow and saves fuel and all the heat is utilized. I use a great deal of pea coal with entire satisfaction. My wife and I are entirely pleased with it as a hard coal consumer. Have not tried coft coal.

Very respectfully,

O. D. WHEELER.

LYONS, N. Y., Oct. 23, '89.

Aldine Mfg. Co.:

Gentlemen — The grate is set and in fine working order, and I am enthusiastic about it. I never had a fire that was so little trouble and kept such an even temperature as this. It only needs attention twice a day, and the thermometer don't vary 10 degrees in 24 hours. The floor is so warm all the time, and we have but little dust, not near as much as a stove. We are perfectly charmed with it.

Yours truly,

Mrs E. F GILBERT

CLINTON, IA., Jan. 1, '90.

Aldine Mfg. Co.:

Gents—The satisfaction afforded from the use of the Fire Place has exceeded my expectations. My hopes respecting its capabilities to take the place of a hard coal burner, have been more fully realized than I had reason to expect, both as to heating power and economy of fuel. I have obtained more heat with less fuel from the Aldine Fire-Place than from my base burner stove, and it is a good stove too. There is one especially noticeable feature in the use of the Aldine, and that is the entire absence of gas escaping from it into the room. There is never the faintest odor of gas noticeable in the house even in the muggiest weather. I have used wood, soft coal and hard coal in it satisfactorily.

Respectfully yours, J. HODGE,

682 9th Ave.

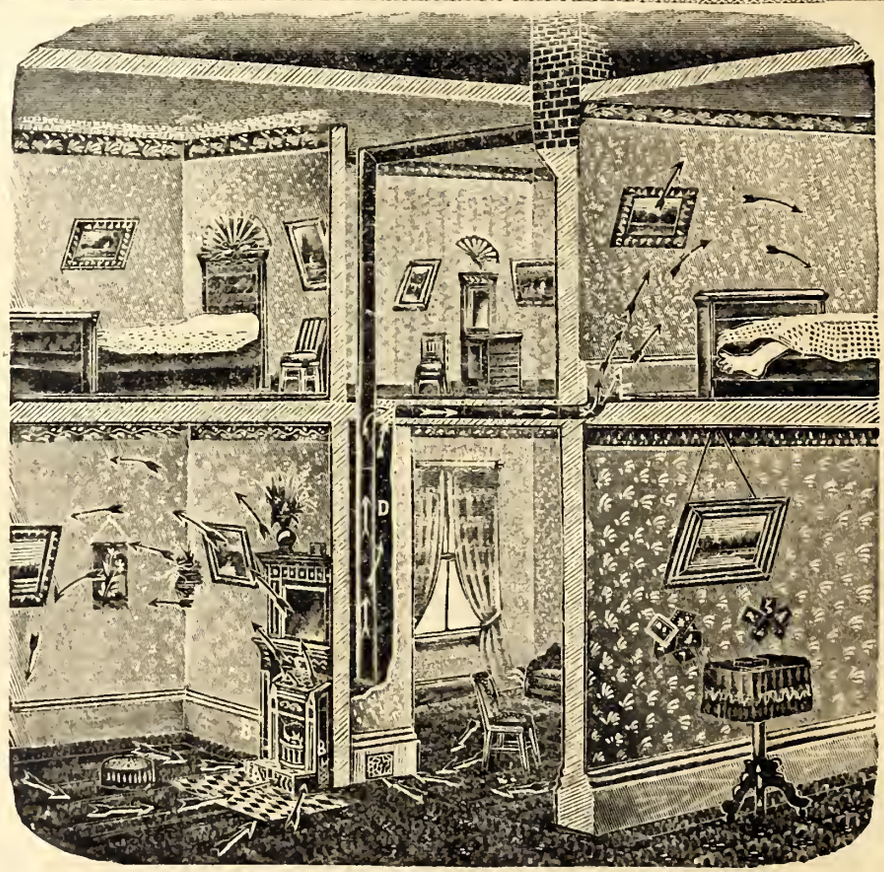

PLATE NO. 6.

This shows the ALDINE FIRE-PLACE set in a partition wall, same as illustrated by Plate No. 3. Instead of bringing the heat from the back of the grate and smoke pipe back into the same room, as in Plate No. 3, it is conducted by a heater pipe between the joist of the second floor to a chamber several feet away.

Office of CHAS. L. FITCH,

Clerk U. S. Circuit Court.

The Aldine Manufacturing Co.:

Gentlemen—Having used an Aldine Grate in my house from the beginning of last December to the present time, I do not hesitate to say that it is, so far as my knowledge extends, superior to any other grate in the market. Too much cannot be said in praise of its artistic beauty or its heat distributing and ventilating properties, and in other regards I believe it to be all that could be reasonably expected.

Yours respectfully,

CHARLES L. FITCH.

MATTOON, ILL, Nov. 11, 1889.

Aldine Manufacturing Co.:

Gentlemen—Your letter of the 8th is received. In reply I would say that I have the Aldine Fire Place in position and have used it for the past month. So far it has given entire satisfaction. Its heating qualities are excellent and it seems to me cannot be surpassed by any base-burning stove. I have used wood, soft coal and anthracite, and find satisfactory results with all. It is very ornamental, especially when compared with most of the unsightly stoves now in use. I shall take great pleasure in recommending it to any one who desires a first-class heater, and at the same time enjoy the luxury of an open fire.

Respectfully yours,

C. G. WEYMOUTH.

DIAMONDALE, MICH., Nov. 4, 1889.

Aldine Mfg. Co.:

Dear Sirs—In reply to your inquiry, will say that I am still using the grate I bought of you, and that it is all right.

Yours truly,

TYLER HULL, M. D.

FIRST NATIONAL BANK OF NEW CASTLE.

NEW CASTLE, IND., Nov. 6, 1888.

Messrs. Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Having now in use one of your "Aldine Patent Fire Places" in which I have been using *natural gas* for fuel, I can say that for a perfect heater—giving warm rooms throughout from floor to ceiling—and the ease with which the temperature of rooms can be regulated, so as to have more or less heat as desired, your Fire Place is a grand success. In fact it seems to be all that could be desired by the most fastidious. I would say to any one desiring a magnificent heater, buy one and be assured it will speak for itself in a way that will surpass you expectations.

Very truly, etc.,

E. B. PHILLIPS, Cashier.

MANCHESTER, N. H., June 1, 1888.

L. H. Withey, Vice-Prest. Aldine Mfg. Co.:

Dear Sir—In these modern days of sensational advertising it becomes almost useless for a person to write testimonials in favor of any article, no matter how good its virtues may be, when he considers the fact that the public, having been deceived so much thereby, are very little influenced by such testimonials, But being so much pleased with the "Aldine Grate" which your agents, Messrs. Thorp and Bartlett, placed in my house early this spring, I cannot refrain as a matter of justice to acknowledge to you privately my perfect satisfaction with the grate, it really accomplishing more than is claimed for it by its manufacturers. If it will be of any value to you at any time, I hereby give you liberty to refer parties desiring information in regard to the article to me, or you may personally bring them to see it at my residence. Truly yours,

GEO. F. ELLIOT.

CHICAGO, ILL., Nov. 14, 1888.

J. T. Phillips, Sec'y The Aldine Manufacturing Co., Grand Rapids, Mich.:

Dear Sir—Yours of the 2d inst. received. Will say the Grate has come fully up to my expectations and your representations. My expectations were, warm floors, and consequent equal temperature, ability to keep fire during day and night without constant attention, economical consumption of fuel; and cleanliness in shaking down. These have all been realized. The ventilation is all that could be desired, under the existing circumstances of equal temperature. You are aware we sacrificed a grate for yours, and have not regretted it. Have not found it necessary to start our furnace yet, which of course adds to the fuel saving quality of the Grate. Very truly yours,

A. S. LAKEY,
487 E. 42d St.

GRAND RAPIDS, MICH., Feb., 1888.

Mr. J. T. Phillips, Sec'y of The Aldine Mfg. Co.:

Dear Sir—It is a year ago last December since I had placed in the reading room of the Morton House one of your Patent Fire Places; and it has fully demonstrated all the merits claimed for it in the long and steady test it has been put to. It equalizes the temperature, keeping the air fresh by its perfect ventilation, preventing the accumulation of hot air in the halls above, and in fact bringing about a happy state of things that is fully appreciated by the guests of this house. Piped as this open grate is, down under the floor and away some twenty-seven feet to reach the flue, it is a wonder to every one that it works so nicely and economically. Finally, we would not be without the Aldine. It is a sanitary safeguard.

A. V. PANTLIND, of Morton House.

GRAND RAPIDS, MICH., Feb. 22, 1888.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Grate which you placed in my house early last fall, gives good satisfaction, for it heats the same amount of room that a direct draft grate will, with less than one-third the amount of coal, keeping the floor warm and the temperature equalized from floor to ceiling.

Yours respectfully,
F. R. CARGILL,
Manager Grand Rapids Engraving Co.

LINCOLN, NEB., Nov. 16, 1888.

The Aldine Co., Grand Rapids, Mich.:

Gents—In reply to yours in regard to your Aldine Fire Place, of which I have set up three, would say that they give perfect satisfaction and are all that is claimed for them. I think they are the most complete fire place in use.

Yours respectfully,
J. F. BETZ.

ALEX. D. FOWLER, Lawyer,
Nos. 10 and 11 Moffat Block.
DETROIT, MICH., March 20th, 1888.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Fire Place which you placed in my library last fall has fully performed all that we expected from it. For ventilating and air-circulating power—and thus keeping the floor warm—and for retaining fire through the night, I ask nothing better and do not hesitate in highly recommending it. Double the money paid for it would not buy it from us if we could not replace it.

Very truly, ALEX. D. FOWLER.

Office of DR. W. C. HOWE.
MENLO, IOWA, Nov. 16, 1888.

Aldine Manufacturing Co.:

Gents—The "Aldine Fire Place" put in my residence some time ago has proved to be an entire success. It produces *more heat with less fuel* than any hard coal heater I ever used, and, most important of all, *equalizes* the *temperature* so that the floor is always comfortable. It is also a perfect ventilator, a point of great value. From a *sanitary* stand-point alone I could heartily recommend its use.

Yours very truly,
DR. W. C. HOWE.

THE HUDSON GAZETTE.
HUDSON, MICH., Nov. 10, 1888.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—The Gazette household unite in very hearty approval of the Aldine grate. It appears to be all that could be desired in the way of comfort, cheerfulness and cleanliness, keeping a good sized dining room comfortably warm, and giving an even temperature to the room. It is a luxury but not an extravagant one, as none of the heat is lost, and it does not consume coal very fast. It increases the delights of the family circle, and

In the months of winter
When the cold north winds blow,

It robs King Winter of his terrors.

Very respectfully,
JAMES SCHERMERHORN, Editor.

MICHIGAN CENTRAL R. R. Co.,
F. C. NICHOLS, Freight Agent.
CHICAGO, ILL., Oct. 24, 1888.

Aldine Mfg. Co., Grand Rapids:

Gentlemen—Herewith I hand you check in payment of your invoice, also enclosed. I am very much pleased with the grate, and only regret that I cannot afford to put in more of them at once, but am in hopes that I shall be able to next year. Please acknowledge receipt of check and oblige,

Yours respectfully,
E. T. NICHOLS, Agent.

GRAND RAPIDS, MICH., March 7, 1887.

Aldine Manufacturing Co.:

Gentlemen—We are very much pleased with the Aldine Fire Place purchased of you last fall. It has done what was claimed for it both in heating and ventilating. Through its air circulating power we have been enabled to warm one room 12x14 feet, and another 16x16 feet to our satisfaction, and with much less fuel than any ordinary grate or stove.

Very respectfully,
T. P. S. HAMPSON.

Office of G. R. & I. R. R. Co.,
W. R. SHELBY, Vice-Prest. and Treas.

Mr. J. T. Phillips, Sec'y Aldine Mfg. Co., City:

Dear Sir—I want to add my testimonial to the many which you will no doubt receive, when the "Aldine Grate" becomes more generally known.

After a thorough trial of one you put in for me, I can cheerfully say that the "Iron Fire Place" has great merit, and with limited and proper attention, it can be relied on for an equal and perfect circulation and distribution of the heat in all parts of the room, and it is economical of fuel; and as they can be used in a room without a chimney, and connected by pipe with a chimney in an adjoining room, thereby giving perfect ventilation, which cannot be had by use of a stove. They ought largely to supersede the use of stoves so common in houses in this climate.

Yours truly, W. R. SHELBY.

Office of CLARK S. ROWE.
CHAMBERLAIN, DAK., Nov. 5, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—I first saw the notice of the "Aldine Patent Iron Fire Places" in the Century Magazine, and after securing a circular, I concluded to send for one, which I received about a month ago. I have set it in place (and in accordance with directions as near as possible); we have tried it with wood and coal, and it gives entire satisfaction, and is the best heater I have ever seen in any house. My family are much pleased with it, being clean, a good ventilator, and warms the floors. It seems to work nicely, and better than expected. Our base "Burner Stove" is for sale for half the cost of it, believing we will have no further use for it in our house. Very respectfully,

CLARK S. ROWE.

EUGENE, OR.,
Nov. 16, 1889.

Aldine Mfg Co.:

Gents — I have been using one of your Aldine Grates for several months and find it very stylish and ornamental, and remarkable for the followfng qualities: for equal distribution of heat in all parts of the room with a constant change of air with very warm floors, for cleanliness and good ventilation, and for economy of fuel. I never saw any kind of a heating apparatus that would give a much heat for the same amount of fuel used. My family are much pleased with it. I have it arranged so I can heat three rooms.

Yours with much respect, PERRY FRANK.

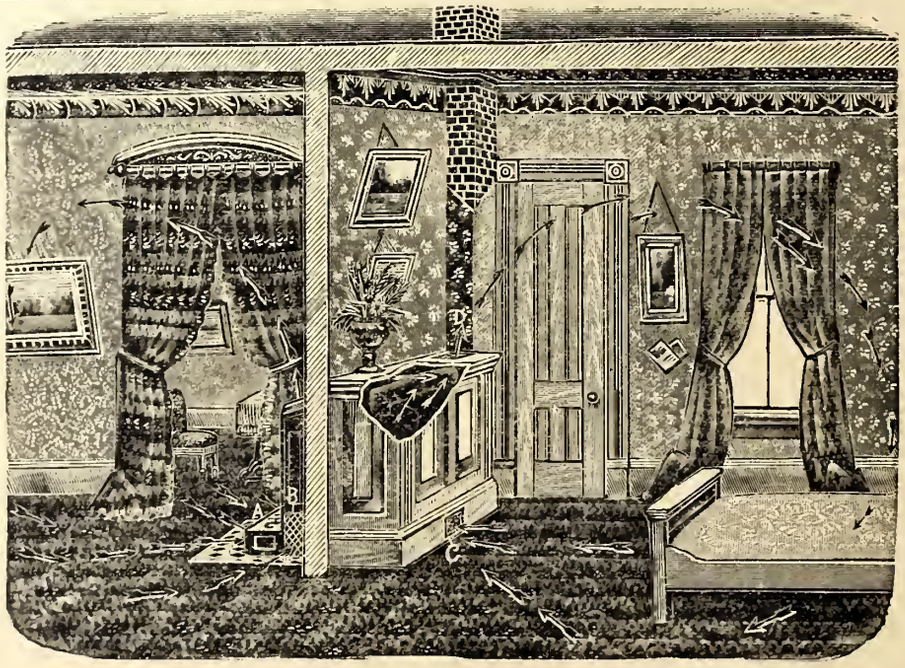

PLATE No. 3.

In this illustration the ALDINE is set in a partition, the smoke pipe being run to the chimney at the side. The back part of the grate and the pipe is covered, as shown; and with a register at C, into which the cold air from the floor is drawn, to be emitted at register D.

HAMILTON, O.,
Jan. 6, 1890.

Aldine Mfg. Co.:

Gents — I have been using my Aldine Fire-Place since November, and I am bound to admit that I am delighted with it. I am heating two rooms 16 x 15, the other 15x13 with 10 ft. ceilings. It keeps them perfectly comfortable with one to three buckets of anthracite coal in 24 hours. It is a perfect hard coal burner. I have no trouble in keeping fire all night. It will give twice as much heat as the best ordinary grate with the same amount of coal. Before using your grate I was using an anthracite stove which often gave me the headache from the dry heat and bad temperature. I have no such trouble with your fire-place, as it gives perfect ventilation, thereby purifying the air in the room. Very respectfully,

THOS. B. TALBOTT, Surgeon.

The Aldine grate is unquestionably the handsomest and most artistic article of its kind manufactured. In addition, it is acknowledged by all who have tested its capabilities to be the most economical grate on the market, as regards the amount of fuel consumed in proportion to the heat given out. It is built upon scientific principles, which insure perfect combustion, admirable ventilation and absolute immunity from the escape of gas or smoke. Mr. Theo. M. Carpenter, of the *Eagle's* editorial staff, recently had one of the Aldine Grates placed in his residence, on East Fulton street, and is therefore qualified to testify personally to the correctness of the above statements, which he does with pleasure.

The Aldine is indisputably the cleanest, handsomest and most efficient fire place yet devised, and its popularity is sure to increase as its merits become more generally known.

Grand Rapids Daily Eagle.

HENRY KRITZER, NEWAYGO ROLLER MILLS,
CHAS. C. KRITZER, Manager.
NEWAYGO, MICH., Nov. 20, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sirs—My experience with the "Aldine Grate" fully justifies me in unhesitatingly saying that it is all that is claimed for it.

Don't give it any more attention than an ordinary coal stove and keep fire with less coal. If you remember, it had to be piped to chimney twenty feet away, making three angles in pipe. Yours truly,

CHAS. C. KRITZER.

ALEX. D. FOWLER, Lawyer,
Nos. 10 and 11 Moffat Block.
DETROIT, MICH., Sept. 1, 1888.

Aldine Manufacturing Co.:

Dear Sirs—Yours of the 31st of August received. Enclosed please find check in payment of Aldine grate in bedroom of my house, 57 Madison avenue. If this one gives half the pleasure and comfort obtained from the Aldine put in my library last fall by you, I will be well satisfied.

Respectfully,
ALEX. D. FOWLER.

HEADQUARTERS CUSTER GUARD,
2d Regiment M. S. T.
GRAND RAPIDS, MICH., Feb. 26, 1888.

To J. T. Phillips, Sec'y Aldine Mfg. Co.:

Dear Sir—The past winter our Company had you place one of your Patent Iron Fire Places in the parlor of our new armory, and we are very agreeably surprised at the results obtained—not only equalizing the temperature in the armory, but as a ventilator. Its merits were well tested on our opening night; with our large room crowded, the atmosphere was kept in excellent condition, and we could not well dispense with it—doing all you recommend. It is cleanly and economical to run, and an attractive ornament to our parlor. Very truly yours,

C. H. ROSE,
Major Custer Guard.

GRAND RAPIDS, MICH., March 1, 1888.

The Aldine Manufaeturing Co.:

Gentlemen—Last fall I had you put into my offices two of your Patent Aldine Fire Places, and they have fully demonstrated all you claim for them—economy in the slow combustion of fuel, equal temperature, warm floors and perfect ventilation—the essential things to be secured in warming rooms. We consider it the best open grate for all purposes we have ever seen.

Very truly yours,
D. A. BLODGETT.

GRAND RAPIDS, MICH., Feb., 1888.

Aldine Manufacturing Co.:

Gentlemen—I had my attention called to your "Patent Iron Fire Place" last fall, and had you place one in my residence, which has been run in connection with my base-burning stove, and wish to say: We are very much pleased with the results; no more vitiated air to breathe over night and day; floor comfortable, by removing the cold air therefrom, and equalizing the temperature through all the rooms. We consider it the best open grate for all purposes on the market; no trouble keeping fire day and night; economical to run. We prize its perfect ventilation.

O. F. RUMSEY.

MICHIGAN SOLDIERS' HOME.
GRAND RAPIDS, MICH., March 1, 1888.

Mr. L. H. Withey, Vice-Prest. Aldine Mfg. Co.:

Dear Sir—In response to your inquiry as to how the three Aldine Fire Places your company placed in the Michigan Soldiers' Home have operated, I desire to say, that we are agreeably surprised in the splendid working of the grates. The even temperature of our rooms, in connection with the perfect ventilation and warm floors (the result of its air circulating principle) are merits that even an old soldier does not fail to appreciate. In fact, we consider them a sanitary necessity, cleanly and economical in running.

B. R. PIERCE, Commandant.

GRAND RAPIDS, MICH., Feb., 1888.

Mr. L. H. Withey, Vice-Prest. Aldine Mfg. Co.:

Dear Sir—Last fall I had your Company put an Aldine Grate in my residence, which we have kept running night and day with as little trouble as a base burning coal stove, equalizing the temperature. We secure warm floors where the heat is most needed; and as a ventilator, consider it the best thing on the market; keeping continuous fire with slow combustion of fuel; has proved very economical and are pleased with it. Respectfully yours,

JAMES L. PITTS.

Office of CHAS. E. BARLOW, General Hardware.
COLDWATER, MICH., Nov. 30, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gents—Your letter received this morning. The grate has been set and is simply perfect.

Yours, C. E. BARLOW.

Office of SCHILLING & ATEN, Bankers.
HIAWATHA, KAN., Nov. 8, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.

Gentlemen—The Aldine Fire Places bought of you last summer give entire satisfaction. The weather has not been extremely cold as yet, but they prove to give perfect ventilation, are very cleanly, economical in the use of fuel, keep the floors warm and keep fire through the night with certainty and ease. In short, so far I am unable to find a single objection to them. Wishing you abundant success, I remain, Yours respectfully,

HENRY J. ATEN.

1130 S. 10th St.; Office, 314 S. Delaware Av.
PHILADELPHIA, Nov. 8, 1888.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Open Fire Place, grate, heater and ventilator which you placed in my sitting room has given entire satisfaction. It does the work which you claimed for it, heating both the room in which it is placed and the one over the same.

Yours respectfully,
JOHN A. ENGLISH.

GRAND RAPIDS FURNITURE CO., Bedstead Mfrs.
GRAND RAPIDS, MICH., March 1, 1888.

Aldine Manufacturing Co., City:

Gentlemen—Replying to late favor, have to say the Aldine Grate has been in constant use all winter, and I have come to believe that with proper care we can get as much heat from the same amount of coal as from any stove, besides having the benefit of a pleasant, cheerful fire with splendid ventilation. We like it and will want another in the fall. Respectfully,

L. C. STOW, Treas.

Office of A. W. ACHARD & SON, dealers in Hardware, Stoves, Mill Supplies, Iron, Tinware and Agricultural Implements, Plumbing, Gas Fitting, etc.

SAGINAW, MICH., Nov. 3, 1888.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—We have sold several of your Aldine Grates in this city, and they are giving the best of satisfaction, being very powerful heaters. It keeps the air in the rooms in constant circulation, at the same time being a perfect ventilator. We like them very much, and hope to have quite a sale for them. Yours truly,

A. W. ACHARD & SON.

This is what Mr. Charles C. Kritzer, of the Newaygo Roller Mills, says:

NEWAYGO, MICH., Dec. 15, 1887.

Aldine Mfg. Co., Grand Rapids:

Dear Sirs—Enclosed find check for one hundred and six dollars in full for invoice 15th ult. Please acknowledge receipt of same, and oblige,

Yours truly,
CHARLES C. KRITZER.

P. S.—To say the least, the grate works immense.
C. C. K.

NOTE.—This grate is piped down into the cellar, and then away seventeen feet to reach the flue, with above results.

J. EDWARD EARL, the Secretary of the Board of Education of Grand Rapids, Mich., writes:

The Aldine Iron Fire Place you placed in the North Division Street School House has met our demands, giving ample circulating power for the comfort and health of the occupants of the several rooms.

YORK, PA., Feb. 25, '89.

Aldine Mfg. Co.:

Gentlemen — In answering your inquiry as to whether the Aldines were placed in good position and are operating satisfactorily. They were placed in good position in the residence of Mr. Kurtz and are giving the best of satisfaction. We should have placed three instead of two had it not been for the architect persuading them to place one Jackson heating and ventilating grate which was done for the third. After operating them until now, Mrs. Kurtz desires me to take out the Jackson grate and dispose of same for what I can get and to order another Aldine. She says they do not get the nice state of affairs that are to be had through the Aldine. The fire goes out very easily, they are subject to hot faces, cold backs and cold feet, and do not have that agreeableness of heat and the nice sanitary conditions given without drafts that are to be had through the use of the Aldine. Please ship soon as possible and oblige. Yours truly,

H. E. SMITH.

JAMES BLAIR, the chairman of the Committee on Ways and Means of the Board of Education of the City of Grand Rapids, Mich., writes:

The Aldine Iron Fire Place put into the North Division Street School House has met our highest expectation, and your statements thereto as to efficiency, durability and economy have been verified. I recommend their use in all school rooms whese the best bodily and mental condition of the pupils and teachers is desired.

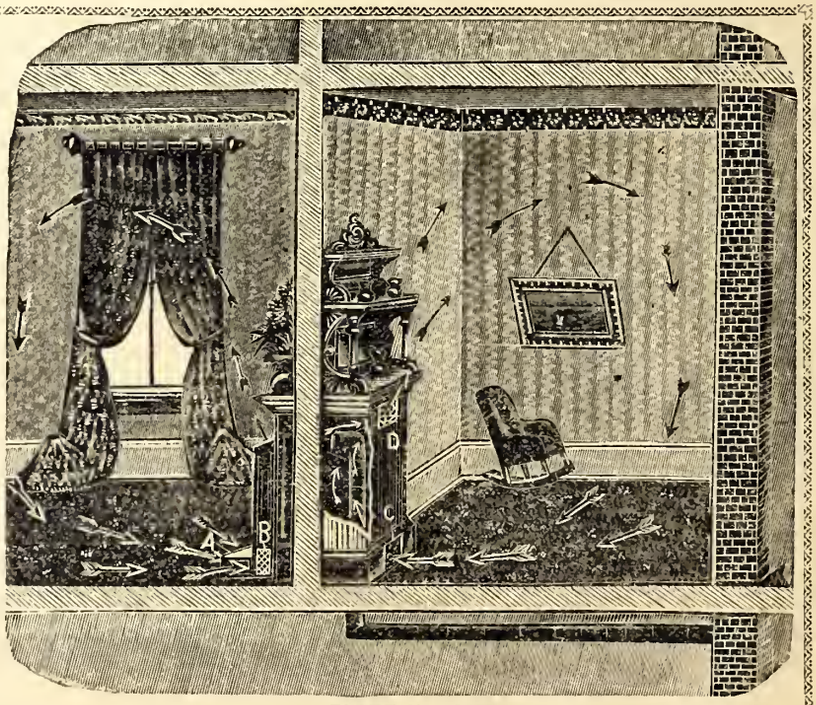

PLATE No. 9.

This cut shows the ALDINE set into a partition, the back of it being covered by a cabinet with registers at C and D, the cold air from the floor being drawn in at C, heated and drawn out at D, and the smoke pipe passing downward enters the chimney beneath floor.

Ex-Mayor of Flint writes:

FLINT, MICH., Oct. 7, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—After using four (4) of your "Aldine Fire Places" for nearly a year—three in my house and one in my office—I can truly say that I think them one of the "greatest inventions of the age." They not only do all you guarantee them to do but they do more. I shall put more of them in my house in the near future. I am,

Very respectfully yours,
GEO. T. WARREN.

Office of WELLINGTON W. CUMMER.
CADILLAC, MICH., Nov. 2, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Your "Aldine" Fire Place produces warm floors, equalizes the temperature, and keeps fire all night. It is economical and clean. Yours very truly,

W. W. CUMMER.

GULF SUMMIT, N. Y.,
Jan. 6, 1890.

Aldine Mfg. Co.:

Gents—I have set the Fire-Place up on the floor like a common stove, tapering the pipe to a six inch pipe hole in the chimney (entirely contrary to the directions) not expecting any good results as a matter of course. But I am pleased to state that in this position it is giving good satisfaction. Does not throw off any gas or smoke. Warm the room 18x20 feet with a sof healthy atmosphere that all speak of highly.

When I was negotiating for the Aldine my wife tried her best to induce me not to get it but buy a stove. That grates would burn my face and freeze my back, and spoil all her house plants, etc., but I notice that the room in which a coal stove is kept burning constantly is almost entirely deserted, and the glowing fire in the Aldine is well patronized. Every one who sees it admires its bright fire and congenial atmosphere. Most respectfully,

GEO. S. WILLIAMS.

LAPEER, Nov. 5, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Your letter inquiring my opinion of the Aldine Grate received. In answer would say that it is the best grate that I ever saw, when you take into consideration the large amount of heat you receive from a small amount of fuel, and I know of no other way of heating that you can keep the temperature of a room so even as by your circulating method. Yours truly,

CHAS. SAUNDERS.

J. VANDERWERP, JR., Hardware Merchant.
MUSKEGON, MICH., Nov. 2, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—In answer to yours of the 1st, would say, I take great pleasure in not only thinking about but in *using* your grate. I have recommended them to hundreds, and take delight in showing it to my friends when they come to my home. I located it in my dining room, in the wall between said room and the kitchen. The pipe runs up in the kitchen, thence up stairs in the chimney. Part of the pipe and back of fire place I have encased and it heats a chamber over the kitchen. It all works very satisfactory. It takes the cold air from the floor and sends it back in the room warm, causing the air in the lower part of the room to be nearly as warm as in the upper or nearest the ceiling. I have also two more fire places in my house, one in the parlor below and one up stairs, but since I put in your grate as stated, I take very little satisfaction in lighting them. I will further say that I do not think your grate wastes any more fuel than the best base burning coal stove ever made.

Respectfully,
J. VANDERWERP, JR.,
30 Peck Street.

Office of SIDNEY J. OSGOOD, Architect.
GRAND RAPIDS, MICH., March 2, 1888.

J. T. Phillips, Aldine Mfg. Co.:

Dear Sir—One of the first requisites of a building in which human beings are to dwell, is that it shall not only be convenient but that it shall be comfortably warmed and thoroughly ventilated, that the thermometer shall register a given amount of heat in the coldest weather, while at the same time there shall be a steady and uniform change of air without draughts, etc. Atmospheric air, as we breathe it in the open fields, is composed of one volume of oxygen gas mixed with four volumes of nitrogen, and it is the same whether in the valley or on the mountains. We may expand it or condense it, but it undergoes no change. We cannot live without it, and it must be fresh and pure. I have given considerable study to heating and ventilation, and am thoroughly convinced that the most economical method is through open grates and fire places, and from experience do not hesitate to say that I have found the Aldine Patent Fire Place the best ventilator and the cleanest and most economical grate in the market.

Very truly yours,
SIDNEY J. OSGOOD, Archt.

Office of TYLER HULL, Physician and Surgeon.
DIAMONDALE, MICH., Nov. 6, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gents—I have been using one of your patent fire places a sufficiently long time to test its merits, and I find it remarkable for the following qualities: For artistic beauty, for equable heat production—all parts of the room being evenly heated, with delightfully warm floors, for keeping fire through the night, when hard coal is used for fuel—equaling a stove with the same fuel, for cleanliness and good ventilation, and for economy in fuel. I think there is no heating apparatus in use that will give as much heat for the same amount of fuel used, as the Aldine Fire Place.

Yours truly, TYLER HULL, M. D.

A. H. LANPHERE, House. Sign and Fresco Painting and Interior Decorating, 50 West Adams Street.
CHICAGO, Nov. 11, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Sirs—I wish to add my name to the list of those using your grate. I put one in my house last winter during our coldest weather, and as I have a house that all of the front lower rooms are connected by portiers or curtains instead of doors, and the floors are hardwood with rugs instead of carpets, we found it impossible to get the floors warm. It mattered not how hot the rooms were, our feet were cold, and through the perfect ventilation of your grate the cold air was carried off the floors and the warm took its place, so we have never had any trouble since. We fill up the grate at night and find a beautiful warm fire just as we left in the morning. I have a furnace, fire places and base-burners, all of modern patterns, in the house, and if I had one more of your grates in the house I could do away with all the balance, and have more heat and purer heat than I now have with them all. No money would buy the grate I now have if I could not get another one.

Very truly yours,
A. H. LANPHERE,
La Grange, Cook Co., Ill.

Opinion of one of the best authorities on Heating and Ventilating.

ISAAC D. SMEAD, of Toledo, Ohio, one of the most expert and best known heating and ventilating engineers, writes under date of Feb. 6, 1888:

I have one of the Aldine Patent Iron Fire Places in my residence, and desire to say that it gives perfect satisfaction in every respect. It possesses every advantage claimed for it, and I have no hesitancy whatever in recommending it as the best fire place with which I am familiar.

Yours respectfully,
ISAAC D. SMEAD,
Of Isaac D. Smead & Co., Toledo, Ohio, Warming and Ventilating Engineers.

WAYNESBORO, PA., Nov. 6, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Replying to yours of the 3d inst. I would say, I have now used the Aldine Fire Place for some time, and find it in every respect accomplishes what you claim for it. It is a powerful and very economical heater, and effectually equalizes the temperature between floor and ceiling. And the ventilation I think is the most perfect of anything I know of. We have no difficulty in keeping fire over night. I am entirely satisfied with it in every respect, and will cheerfully recommend it to any one wanting an open fire place heater, as being strictly first-class and the very best I have ever seen. Yours truly,
A. O. FRICK.

RICHARDSON & CO.,
Dealers in Hardware, Tinware, Stoves, etc.,
502 Main Street.
LA CROSSE, WIS., Nov. 3, 1888.

Messrs. Aldine Mfg. Co., Grand Rapids:

Gents—Yours of the 1st to hand, and in reference to the Aldine heater would say, that we have it set up in our large plate glass front window and always run it in weather that we can't keep the dampness and frost off with our regular heater. It does the business to our satisfaction. It keeps the windows dry without allowing a particle of water to run on platform. We have no trouble whatever in keeping fire all night. We consider it as economical to heat a good sized room as any heater in the market.

Yours respectfully,
RICHARDSON & CO.

GRAND RAPIDS, MICH., Feb., 1888.

Mr. A. D. Rathbone, Prest. Aldine Mfg. Co.:

Sir—It is with pleasure I desire to say a good word for the two Aldine Fire Places I have in my double residence (one in each part). During the winter they have given excellent satisfaction, drawing the cold air from remote rooms and producing a circulation of warm air, even to the floor (a state of things devoutly to be wished for by all ladies during cold weather, you know?) Producing a perfect ventilation night and day, and run under a slow combustion of fuel. They have proved very economical. While their many merits over other open grates must commend them to the public.

Respectfully,

ADELOID M. HENDERSON.

EVANSTON, ILL, Jan. 7, 1890.

Aldine Mfg. Co.:

Gentlemen—Your inquiry December 24, received, and in reply will say that the two Aldine Grates were set up all right. I used them last winter with hard coal. They gave me perfect satisfaction. I found them saving in coal, giving more heat by saving that which escapes up the chimney in other grates, and by judicious use of the indirect draft they can be controlled. One great point is the puffing out on the carpets, furniture, etc., of dust, fine soot or smoke, all of which are avoided through the use of the Aldine Fire-Place. I examined the Aldine Fire-Place thoroughly before setting. I found them well made, free from sand holes, joints well fitted and puttied, and to all appearances tight, and have not yet detected the least sign of gas or smoke from either of them. I used a Baltimore heater three years and was finally compelled to abandon it on account of the leaking gas. I have six grates besides the two Aldines, and I propose to replace some of them at least with Aldines, as I cannot stand the immense loss of heat up the chimney that is had through the use of all other grates, and the soot and dust soiling my carpets in windy weather. Fully recommending the Aldine, I am yours truly,

C. J. STOKES.

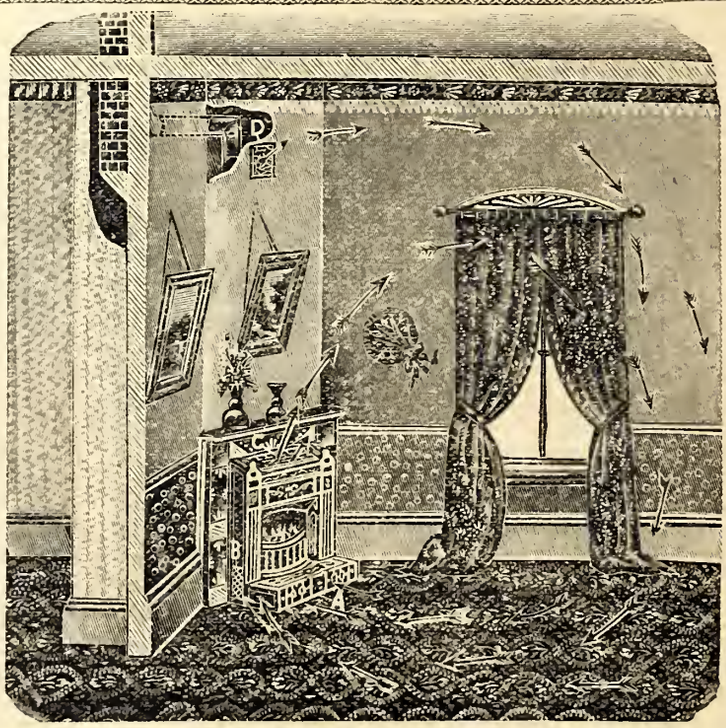

PLATE No. 7.

In this illustration the ALDINE is set in the corner of the room, the pipe entering the chimney near the ceiling. A false chimney breast (lath and plaster on studding) is placed above the mantel, hiding the pipe and making a nicely finished piece of work. At D is a hot-air register, from which the air that is warmed by the grate jacket and smoke pipe escapes.

GRAND RAPIDS, Jan. 15, 1887.

Aldine Manufacturing Co.:

Gentlemen—I have had the Aldine Iron Fire Place in use in my dwelling since early in the fall, and I am well satisfied with it. As a heater and ventilator it has no equal. Yours truly,

I. M. JOHNSON.

GRAND RAPIDS, March 12, 1888.

Aldine Grate Company:

Gents—I have had one of your Grates in use since September, 1887. Am much pleased with the same. As a ventilator I do not think it can be surpassed, and it is the *cleanest* grate I ever saw. Yours respectfully,

ASA P. STUART.

JAMES BARNS, Dealer in Cabinet Furniture, Metalic Caskets, Coffins, Picture Frames, Repairing and Varnishing, 60 Washingion St.

GRAND HAVEN, MICH., Nov. 13, 1888.

Gents—In reply to your letter of recent date I wish to say: Having one of your Grates in use we are well satisfied that it does all that you claim for it. We consider its heating qualities, ventilation and economy of fuel exceeding all other grates, and we could not be induced to have any other.

Yours truly, JAMES BARNS.

Kentucky Union Land Company,
CLAY CITY, KY.,
Jan. 22, 1890.

Aldine Mfg. Co.:

Gentlemen—Replying to your favor of the 2d inst. The fire-place you shipped us is doing splendidly. The fact is, I consider it the best fire-place that I have ever seen in operation. Though it has a poor chance to show what is really in it where we have placed it, as there are several crooks in the pipe and the pipe is considerably jammed, it was difficult to get it in. The flue is very crooked and we cannot turn down the damper fully so as to force the smoke around the grate; but it has more than filled our expectation even as it is. In the spring we will tear down the chimney and erect a new one especially for this grate, and I am fully confident it will do all you recommend it. In fact, it is doing that now. I think that I fully understand the principle of it and can put it up as it ought to be. I would confidently recommend it to any one that wants a fire-place for heating purposes, as it certainly heats a room and keeps the air pure in it, and uses very little fuel. Yours truly,

W. A. CARLEY, Per O. C.

MATTESON BROS. & CO.,
Mfrs. of Iron Paints and Dry Mineral Colors,
Cor. North Branch and Bliss Sts.
CHICAGO, Nov. 2, 1888.

Aldine Mfg. Co., Grand Rapids, Mich.:

Dear Gents—I am much pleased with your Fire Places. We can keep fire over night as well as any stove I ever used, if not better. Can control it as well as my stove. It heats up well. Does not take much coal to run it.

Yours, etc., W. P. MATTESON.

South Evanston is where I reside.

GRAND RAPIDS, MICH., Feb., 1888.

Aldine Manufacturing Co.:

Gentlemen--Last fall your Company put one of your Patent Iron Fire Places in my residence, which has been run in connection with steam heater this winter, and desire to say that we are well pleased with the result. Not only as a ventilator and equalizer of the temperature, producing warm floors thereby, but as an economical, cleanly heater. We have been using No. 4 coal in the grate and find it works nicely, keeping fire throughout the day and night, with a slow combustion. Very truly yours,

J. C. FITZGERALD.

J. M. BARROWS, Architect and Builder.
Office and Res., N. Nottawa St.
STURGIS, MICH., Nov. 12, 1888.

Aldine Manufacturing Co.:

Gentlemen--I have an Aldine Grate, set up similar to plate No. 3 in your catalogue. I consider it a perfect success, having tried it with both coal and wood. It is a good ventilator, equalizing the temperature, is cleanly and economical. I can cheerfully recommend it.

Yours respectfully,

J. M. BARROWS.

Office of DANIEL MCCOY,
President Edison Electric Light Co.
GRAND RAPIDS, MICH., Feb. 20, 1888.

Mr. J. T. Phillips, City:

Dear Sir—The Aldine Grate that I bought from your Company last fall has given complete satisfaction, and that portion of my house that in the severe weather of winter has heretofore been uncomfortable, has been at all times suitably warmed. The equalization of the temperature of the room has been greatly improved, and we have no cold floors. I consider your grate the best I have ever seen.

Very truly, DANIEL MCCOY.

Office of D. S. HOPKINS, Architect.
GRAND RAPIDS, MICH., March 1, 1888.

This Aldine Grate is a great fuel saver in this way: The return flue, or indirect draft, which this grate possesses, gives out at least double the amount of heat from the same amount of fuel that an ordinary grate can. This I know from actual experience, as I am using one. It also is economy to run one of these grates in connection with steam or furnace heating, as it greatly assists in ventilation and heating at the same time.

D. S. HOPKINS, Architect.

Office of W. W. COLLINS, M. D.
ALBION, Nov. 2, 1888.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place I bought of you and had placed in my house last spring excels anything I have ever seen in the shape of a grate for warming, ventilating and equalizing the temperature of a room. With hard coal it keeps fire all night, and you have a good bright fire in the morning with much less cost than a stove. I regard it as a luxury, as well as healthful and useful.

Yours respectfully,

W. W. COLLINS.

P. S.—When I get a little more wealth I expect to have another Aldine put in my house. W. W. C.

GRAND RAPIDS, MICH.

Aldine Manufacturing Co.:

Gents--Having put into my house the past winter one of your "Aldine Grates," I now wish, after a two months' trial, to express to you my entire satisfaction in its capacity for heating and ventilating at a minimum cost for coal, over any other grate now on the market; and any one using a hot air furnace for heating can't afford to remain without an "Aldine Grate," as it equalizes the heat, and by so doing increases the capacity of the furnace without an increase of fuel.

Respectfully,

WM. D. GILBERT.

FOND DU LAC, WIS., Nov. 14, 1889.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Replying to your recent letter, permit me to say, with reference to the Aldine Fire Place, that it is giving good satisfaction.

Very truly yours,

WILTON B. SIMMONS.

Office of GEO. W. BUSWELL,
Attorney at Law.
BLUE EARTH CITY, MINN., Feb. 3, 1890.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gents—We have had some severe weather and I am pleased to say that the "Aldine" gave not only myself but my wife and friends satisfaction. It has got up considerable of a commotion here among those designing building and others, and you will no doubt make some sales.

Respectfully,

GEO. W. BUSWELL.

Office of HAMILTON WINE AND BEER CO.
C. HILLS, President.
KEOKUK, IOWA, Nov. 15, 1889.

Aldine Mfg. Co., Grand Rapids, Mich.:

Your letter of the 6th inst. came duly to hand, and have contents noted. In reply to your inquiry, I will state that I am highly pleased with the working of the Grates. They are all I expected, and most assuredly far in advance of any grate I have ever seen. The ventilation of the rooms where the grates are situated is just perfect, in fact I often think that I am outside in the open air. We have had but little cold weather so far, yet I am satisfied they will be all right. It is easy to run them, and to keep fire in them over night is no trouble whatever. If any one wishes a good, satisfactory grate, they can't do better than buying the Aldine. I am, Respectfully yours.

C. HILLS.

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125 Pierrepont Street.
BROOKLYN, Nov. 13, 1889.

Aldine Manufacturing Co.:

Gentlemen—Your favor of the 11th inst. is received. The fire place was set in position soon after its arrival and works well. There has not as yet been any weather cold enough to test it thoroughly, but I expect it will heat my room sufficiently. I had it in operation for a short time before my main furnace was started, since then my hot water system (indirect and not under pressure) has been sufficient to keep my office comfortable without the grate. In severe weather last winter it was difficult to keep the office warm, although the rest of the house could be kept perfectly comfortable. I have recommended the grate to a number of friends. The fire place was splendidly packed and arrived without accident. Thanking you for your courtesy evinced throughout, I am,

Very truly yours,

T. M. LLOYD.

SANILAC CO. PROBATE OFFICE,
D. STUART MCCLURE, Probate Judge.
MARLETTE, MICH., Feb. 10, 1890.

Gentlemen—The Aldine recently put into my house has been a source of much comfort to us. The combination of direct radiation with the furnace principle of heating a continuous current of air, has a surprisingly grateful effect on the atmosphere of a room. For spring and fall use, when you desire to avoid the expense of running a furnace, the Aldine answers every purpose of a coal stove without robbing the air of its oxygen, while in point of cleanliness, convenience and cheerful home like appearance, it is infinitely superior.

Yours truly,
J. STUART MCCLURE.

E. J. NEWMAN & CO.,
Mfrs. of Akron Cement and Akron Falls Flour.
AKRON, N. Y., Nov. 15th, 1889.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Yours of the 8th inst. at hand; contents noted. I am very much pleased with the Aldine Grate I purchased of you this summer. I have had it in operation about a month now, and it is *perfectly satisfactory* in *every way*. Would not part with it for twice the cost if I could not get another one. You are at liberty to send any one to see it who may want to know of the grate and its workings.

Yours truly,
H. L. NEWMAN.

CHICAGO, ILL., Dec. 1, '89.

Aldine Mfg. Co.:

Gentlemen—The Fire-Place I purchased has given perfect satisfaction. It gives the pleasantest fire and most heat with the least fuel of any fire place or grate that I have used, and I have tried some of the best makes. It is so ornamental as to attract the attention of all our visitors. Yours truly,

L. MULLER, JR.,
Pres. and Treas. of the Inland Publishing Company.

FARGO, N. D., Nov. 18, '89.

Aldine Mfg. Co.:

Gents—Having used the Aldine Fire-Place since September last, I find it fully up to my requirements, doing all that you claim for it in every respect, and withal a handsome piece of interior decoration. Yours truly,

E. W. MORSE.

CHICAGO, ILL.,
Bliss St., Nov. 4, '89.

Aldine Mfg. Co.:

Gents—We are running the Aldine Fire-Place and are well pleased with same. Think it a saving in coal and a good heater.

Yours respectfully,
W. P. MATTESON.

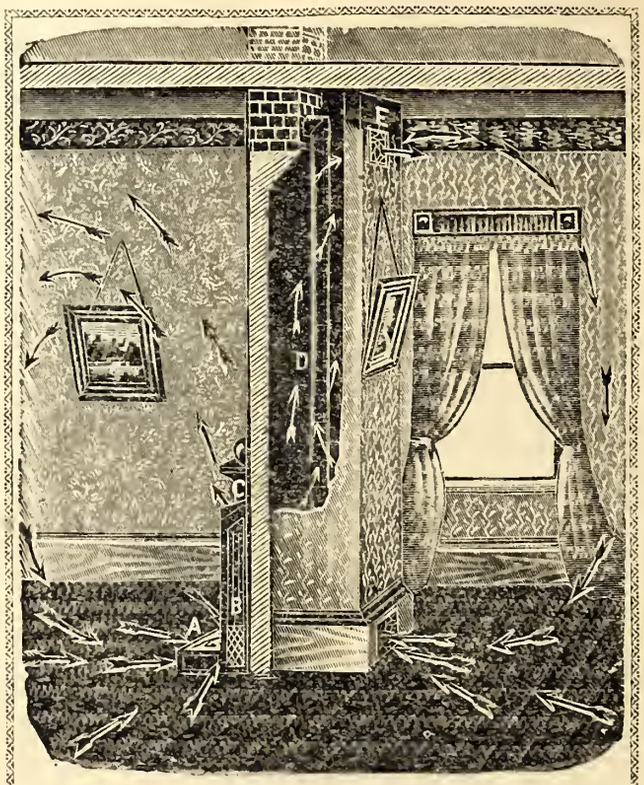


PLATE No. 2.

This cut represents the ALDINE FIRE-PLACE set in a partition wall, and giving its heat into both rooms. The back of the Fire-Place and the smoke pipe are enclosed in a false chimney of lath and plastering on studding. The cold air passes into the register at the base of this (as shown by the arrows) following along up the pipe and is discharged into the room again, well heated through the register at E. The back of the grate is thoroughly encased in brick work, so that no possible danger of fire exists.

KNOXVILLE, TENN.,
Jan. 4, '90.

Aldine Mfg. Co.:

Gents — The Fire-Place is doing splendidly, giving the best results. I am more than pleased with it. I am sure we get double the heat from half of the coal we formerly used in old style grate. Yours truly,

J. A. MCKELDIN,
Secretary and Treasurer Knoxville Woolen Mills.

SPITZER, O., Jan 21, '90.

Aldine Mfg. Co.:

Dear Sirs—The Furnace you sent me, I followed your directions in setting and got a perfect fit the first time. It is a "dandy" for heat, health, comfort and economy. I am burning wood in it and have no trouble to heat four rooms, and the furnace keeps good fire all night. All admire it here. Respectfully,

H. C. TINKHAM.

PAINSVILLE, O., Nov 13, '89.

Aldine Mfg. Co.:

Gents—My Aldine Fire-Place is working well and giving good satisfaction, and doing all that you recommended.

Very truly,
H. NOTTINGHAM.

MONTICELLO, IA., Nov. 13, 1889.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Grate purchased of you and put in operation this fall, more than meets my expectation. It is a great heater and consumes very little fuel. We get as much heat as from our coal stove, and with very little fuel in comparison. Our only trouble with it so far has been too much heat, but are getting so we do not put on so much coal, and thereby control that part. We would not have it taken out under any conditions. Every one that has seen it is very much pleased with its operation and appearance.

Yours truly,
D. E. POND,
Treas. Diamond Creamery Co.

RICHLAND CENTER, WIS., Dec. 26, 1889.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place received of you during March last, was placed in position without the aid of an expert, and after use, can say we find it entirely satisfactory, and believe it fulfills every requirement claimed for it. It burns either wood or coal, and throws out a great deal of heat into the room, affording perfect ventilation. My house is warmed throughout by hot water. Your fire place improves the ventilation throughout, and is satisfactory.

Yours respectfully,
A. C. PARFREY,
Prop. Richland Center Flouring Mills.

SIOUX CITY, IA., March 4, 1890.

The Aldine Mfg. Co., Grand Rapids, Mich.:

When I received your letter asking me to write what I thought of the Aldine Grate, I was laid up with la grippe; as soon as I was well enough, I went to work at my chimney. If you remember I wrote you some time ago about the fire place not working. I had the chimney raised four feet, still it did not work. I then went to work myself and found I did not have draft enough in the chimney; it was all choked up with loose brick and mortar. I cleaned it out and the result is that the Aldine Fire Place is working away beyond our expectations. I had done considerable talking for the Aldine and parties wanted to come and see it work, but I always had some excuse handy, for as soon as we had a fire the house was full of smoke; now that is all remedied, and I just tell them to go right out and examine the Fire Place. We have it in our parlor, 16 x 16, and when the thermometer was 18 degrees below zero last week, the room was uncomfortably warm. We consider it the best heater we ever had, the heat being perfect and equal in all parts of the room; no cold floors. We were disappointed at first but would not now do without an Aldine. Next summer will rent the house we built last year and build one on cable line; will want two Aldines then, and perhaps two more in this house.

Respectfully yours,
J. N. MURPHY.

MINNEAPOLIS, Nov. 16th, 1889.

The Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—Your favor of 8th inst. received, in answer will say, I am highly pleased with the Aldine Fire Place. It is a great heater and does all you claim for it as to heating, as on moderate days we can almost heat our whole house of nine rooms, and it is too warm at times. The Fire Place and Face Plate are both much admired by all my friends. Very truly yours,

ARTHUR NORCROSS,
3122 Clinton Av.,
Minneapolis, Minn.

FIRST NATIONAL BANK.
LINDSBORG, KANSAS, Jan. 3, 1890.

Aldine Mfg. Co., Grand Rapids, Mich.:

Gentlemen—The Aldine Fire Place you sold us is excellent; it gives entire satisfaction. It is the best fire place I have seen. I shall put up one or two at my residence in the spring. Respectfully,

JOHN A. SWENSON,
Cashier.

Office of J. I. TIBBETTS, M. D.
WAYZALA, MINN., Nov. 16, 1889.

Aldine Mfg. Co., Grand Rapids:

Gentlemen—I have the Aldine Fire Place received from you in running order. Set according to the directions, and am burning hard coal. The result has been very satisfactory. It is grand for heating the floor and is all that you claim for it, and is much admired by those who have seen it in operation here. Yours truly,

J. I. TIBBETTS, M. D.

LANCASTER, Pa., Feb. 6, 1890.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place was duly received. We were fortunate in securing the services of a first-class mechanic to put it in place; he never saw one of them before, but had no difficulty in making a successful job, by simply following your instructions. We have had the Fire Place in daily use for the past three months, and we are all highly pleased with the result. It is not only a perfect ventilator, but it gives such a wonderful amount of heat, considering the amount of fuel used. It is certainly all you claim for it in your circular as well as in your advertisement in the "Century," where we first noticed it. We have burned wood as well as egg and pea coal.

Yours very truly,
JAMES SHAND.

FREEPORT, ILL., Feb. 19, 1890.

Aldine Mfg. Co., Grand Rapids:

Dear Sirs—Replying to your inquiry as to how we like the "Aldine Fire Place" bought from you last fall, would say, first rate. In connection with a medium size base burner we heat double parlors, 14 x 22, dining room, 11 x 14, bedroom, 9 x 15, and bath room, 5 x 7, all 9 foot ceilings, also, most of the time, hall, 11 x 14, and keep warm, having an average of about 75 degrees. The heat is very pleasant and wholesome, circulating throughout the rooms, giving an equal temperature not had by the stoves alone. If I were building again I should have Aldines all over the house instead of stoves. Yours truly,

J. SEYDLE WISE.

DAYTON, N. Y., Nov. 16th, 1889.

Aldine Manufacturing Co.:

Gentlemen—Yours of the 8th inst. is at hand. My No. 22 fire place which you shipped me in August is in operation, and is in every way satisfactory in its operation. It is cleanly, economical and easily operated. We have not yet had the opportunity of putting it to the test of severe weather, but have tested it enough to know that it fully answers all your claims for its merits. It burns coal cleaner and keeps fire better than any coal stove I ever used. I am pleased with it. Yours truly,

W. L. MARSH.

WM. H. INGHAM,
President Kossuth Co. Bank.
ALGONA, IA., Jan. 30, 1890.

Aldine Manufacturing Co.:

Gentlemen—We find the Aldine purchased from you last July to be a great improvement on the grate we have been using, as it warms the room evenly, holds fire as well as a base burner, burns about the same quantity of coal and furnishes the best of ventilation. We are well pleased with it in all respects. Respectfully.

WM. H. INGHAM.

HORTON, KAN., Dec. 6, 1889.

Aldine Manufacturing Co.:

Gents—I will say that I have the Fire Place in position, and it is satisfactory in everything that you claim for it.

Yours very truly,
ED. ANDERSON.

TEKAMAH, NEB., Nov. 23, 1889.

Aldine Manufacturing Co.:

Gentlemen—Replying to yours of Nov. 11, would say, that we have been using the Aldine Fire Place about 30 days, and with the very best of satisfaction as to its heating qualities. It does all or even more than you claim for it. Every one who sees the working of the grate is pleased.

Very truly,
H. M. HOPEWELL,
Banker.

MIDWAY, KY., Nov. 7th, 1889.

Aldine Manufacturing Co.:

Gentlemen—I am perfectly satisfied with the working of my Aldine Fire Place. The general remark is, "O how delightful your rooms are."

Respectfully,
J. SUTTON.

HASTINGS, MICH., Dec. 18, 1889.

Aldine Manufacturing Co.:

Gentlemen—I think the Aldine Fire Place the best grate made, and if I should ever build a house, should use the Aldine. I recommend it to any one wishing a cheery open fire and the best of results.

Yours with respect,
N. T. PARKER.

RICHLAND CENTER, WIS., Nov. 9, 1889.

Aldine Manufacturing Co.:

Gents—I have set three of your Aldine Grates this summer, one of them in my house, and every one of them gives perfect satisfaction.

Hastily,
G. H. STRANG.

Office SCIENTIFIC ASSOCIATION.
SIOUX CITY, IA., Jan. 23, 1890.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place shipped us last September is giving good satisfaction. We are heating a room, 11x14, ceiling 9 feet, with the consumption of ½ bushel of hard coal in 24 hours. It is a grand success.

Yours truly,
J. PERRIN JOHNSON.

MINNEAPOLIS, MINN.,
Jan. 6, '90.

Aldine Mfg. Co.:

Gentlemen—The Aldine Fire-Place purchased of you gives me perfect satisfaction and does all you claim for it; my friends are all pleased with it also. If I were to build again I should put in several of them. I cheerfully recommend it to any one wishing an open grate for economy of fuel, perfect ventilation and great heating capacity. Yours truly,

ARTHUR NORCROSS,
3122 Clinton Ave.

STERLING, ILL.,
Dec. 27, '89.

Aldine Mfg. Co.:

Gents — The Fire-Places are both up and seem to be doing fine. The parties say that they never had their houses heated so evenly in different parts of the rooms. One of them is set in the partition and heats two rooms. Yours respectfully,

J. E. PHILLIPS & CO.

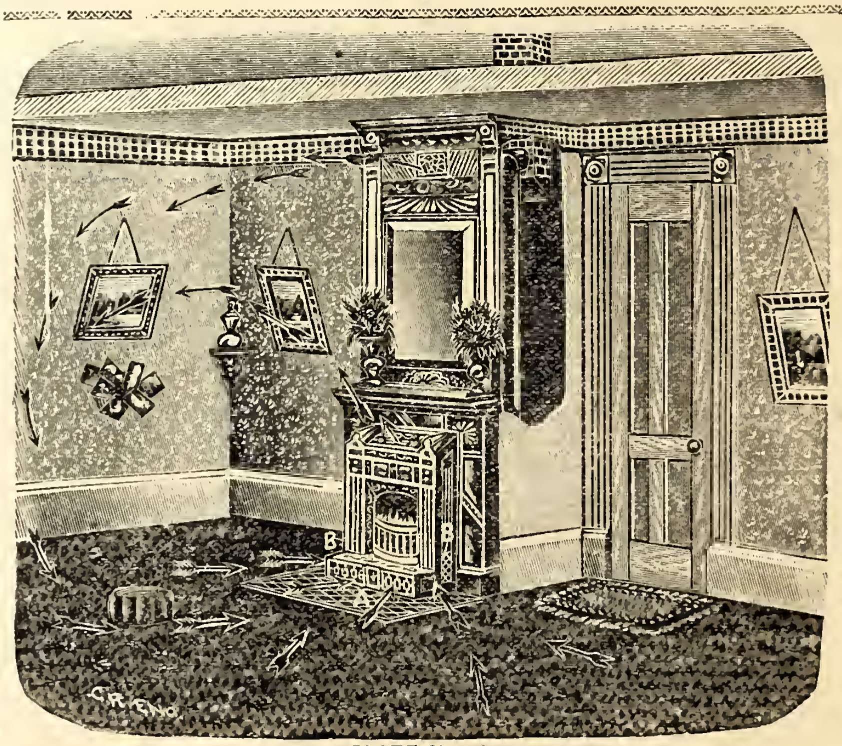


PLATE NO. 4.

This plate shows the ALDINE placed in a room beneath a chimney which rests on brackets near the ceiling. This chimney, together with the smoke pipe and the jacket, is concealed by lath and plastering. This is a very common method of setting up the Fire-Places.

PHILLSBURG, PA.,
Nov. 12, '89.

Aldine Mfg. Co.:

Gents—I would say that I set up and have in operation the Aldine Fire-Place purchased of you. I am pleased to say that it gives complete satisfaction, in fact more than any other that I have had put up. As soon as I can make some alterations I propose putting four in my own house. Wishing you success, I am,

Very truly yours,
GEO. M. RHULE,
Architect and Building Contractor.

TRAER, IA.,
Nov. 8, '89.

Aldine Mfg. Co.:

Gents — In reply to inquiry will say: The No. 22 Aldine Fire-Place I got of you through Mr. J. B. Dennis of this place, is a splendid heater and gives entire satisfaction. It is not only a good heater and ventilator but economizes fuel. Truly,

R. H. MOORE.

PONTIAC, MICH., Nov. 5, 1889.

Aldine Manufacturing Co.:

Gentlemen—In reply to yours of the 2d inst., would say: We put in the Aldine Grate and it has given perfect satisfaction.

Yours truly,
JACOBS BROS.

NEW YORK MILLS, ONEIDA CO., N. Y., Dec. 25, '89.

Aldine Manufacturing Co.:

Gentlemen—The grate gives us entire satisfaction. We never put anything in our house from which we have derived more pleasure.

Very truly,
H. C. IRELAND.

GILMAN, ILL., Dec. 4, 1889.

Aldine Manufacturing Co.:

Gentlemen—We have our Aldine running in our sitting room, and it gives entire satisfaction. For warm air circulation, heating capacity and ventilation, it seems to me to be perfect.

Very respectfully,
D. L. PARKER.

HART, MICH., Jan. 4, 1890.

Aldine Manufacturing Co.:

Gentlemen—We are well satisfied with the Grate put in by you, and would not exchange for any we have ever seen.

Truly yours,
E. D. RICHMOND,
Cashier Oceana Co. Savings Bank.

DEVEREAUX HALL, BRADFORD TERRACE,
CUYAHOGA FALLS, O., Nov. 4, 1889.

Aldine Manufacturing Co.:

Gentlemen—I received the Fire Place in good order and have set it, and find it all you say it is. I have never seen anything equal to it. I shall order soon again.

Sincerely yours,
T. C. RUCKER.

REED CITY, MICH., Dec. 26, 1889.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place we bought of you Sept. 4, 1888, has given the best of satisfaction, and does all you claim for it. Knowing the benefits derived from it we would not keep house without one.

Respectfully yours,
STODDARD BROS.,
Hardware and Mill Supplies.

PORTSMOUTH, N. H., Dec. 16, 1889.

Aldine Manufacturing Co.:

Gents—I am pleased to say that the Aldine Fire Place is set in position and giving perfect satisfaction. It is all you recommend it. Yours truly,
JNO. P. SWEETSER.

MATTOON, ILL., Nov. 18, 1889.

Aldine Manufacturing Co.:

Gents—I have been using my Aldine Fire Place about 30 days, and I find it does all you claim for it. It doesn't require near as much fuel as the old style grate or fire place, and gives twice the heat, besides it keeps the air in the room fresh all the time, acting as a ventilator. In fact we would not do without our Aldine Fire Place.

Yours respectfully,
GEO. W. SHAW,
22 East Broadway.

HOLLEY, N. Y., Jan. 1, 1890.

Aldine Manufacturing Co.:

Gents—The Fire Place you shipped me is doing good business as a heater, and is in every way satisfactory. Also the one you shipped to Editor Hayden, of the Standard, which I set up for him, is doing well, and he is much pleased with it. I am using the first one you shipped, and it is a perfect success. Wishing you a Happy New Year, I remain, Respectfully,
GEO. H. SAVAGE.

SHEKOMEKO, DUTCHESS CO., N. Y., Dec. 11,'89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine heater shipped to my address, in September last, is placed in a large room, and works to perfection. It throws out a great deal of heat, is a perfect ventilator, and in every respect gives entire satisfaction. The superior advantage of this heater is that it secures warm floors. I cannot speak too highly of it, and can safely recommend it to any one wanting an open fire place heater.

Very truly,
EDWARD V. HOOD.

KENOSHA, WIS., Dec. 23, 1889.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place purchased of you last March, is set in proper position, and working in the most satisfactory manner.

Yours respectfully,
FRANK SLOSSON.

DEL WATER GAP, PA., Dec. 27, 1889.

Aldine Manufacturing Co.:

Gentlemen—The Fire Place I bought of you on April last, gives us perfect satisfaction in the room in which it is placed. Size of room, 13 x 26. The temperature is about the same in any part of the room, and the floor is as warm as one would wish. I find no trouble to keep fire over night, and only fill the grate up once a day, in the morning only.

Respectfully yours,
J. B. SHAW, M. D.

MUSKEGON, MICH., Jan. 1, 1890.

Mr. J. T. Phillips, Sec'y Aldine Mfg. Co.:

Dear Sir—I take great pleasure in saying that the Aldine that I bought of you for the Muskegon Booming Co. works admirably and to our entire satisfaction. No grate could work better, and all connected with the office are charmed with it. Yours truly,
C. T. HILLS.

HOPEDALE, MASS., Jan. 6, 1889.

Aldine Manufacturing Co.:

Gentlemen—I have had the Aldine Fire Place operating three months, and it is giving me splendid results, and the best of satisfaction. My wife tells me it is the best investment I ever made, and I really think so myself.

Respectfully yours,
EDWARD S. STIMPSON.

WINDOM, MINN., Jan. 22, 1890.

Aldine Manufacturing Co.:

Gentlemen—I desire to inform you with regard to the "Aldine Fire Place," which we purchased of you last spring. That it is working most satisfactorily thus far—although we have not tried it for coal but a single time, yet I think I am safe in assuring you that "she's a daisy," and I would recommend the "Aldine" to any one desiring a fire place.

Yours truly,
DR. C. A. GREENE,
Windom, Minn.

Office of A. HIMES,
Wholesale and Retail Coal.
GRAND RAPIDS, Jan. 17, 1890.

J. T. Phillips, Sec'y Aldine Mfg. Co.:

Dear Sir—I take pleasure in referring to your Aldine Grate, having had one in use in my house long enough to test its merits; can say that I think it is the best grate made.

Yours respectfully,
A. HIMES.

GRAND RAPIDS, MICH., Jan. 17, '90.

Aldine Manufacturing Co.:

Gentlemen—It gives me pleasure to speak a good word for the Aldine Grate I had you place in my new residence last spring I consider it far ahead of any grate on the market. We are surprised at the amount of heat obtained from so little fuel, and in the circulation of air throughout the rooms; we have warm floors and no extreme degree of heat. It is a pleasure not to be obliged to huddle around the grate in cold weather. With the Aldine one can sit in any portion of the room with equal comfort, requiring little care to operate, an excellent ventilator, and the cleanest grate I have ever seen, and would cheerfully recommend the Aldine to any one wanting the best open fire place.

Respectfully yours,
WM. MCLAIN,
Cor. College Av. and Logan St.

CLEVELAND, OHIO, Oct. 22, 1889.

Aldine Manufacturing Co.:

Gentlemen—I now take great pleasure in writing, informing you of the great success I have had with the Aldine Fire Place. It is the most complete grate I ever saw. It is in its capacity the best for heating and ventilating at a very small cost for fuel, over any heating apparatus. I have used a base burner and furnace My store is 20 by 80 feet. and very large to warm. No one could buy the grate I now have if I could not buy another. I remain,

Yours very respectfully,

E. G. HEYNER,
2568 Broadway.

EMPORIUM, PA., Nov. 23, '89.

Aldine Manufacturing Co.:

Sirs—Replying to your letter, I would say, the grate is in running order and gives perfect satisfaction. Believe it to be the best as well as the cheapest of its kind on the market. The other two you sent here give good satisfaction.

Respectfully,

J. G. BRYAN.

ELKLAND, PA., Nov. 12, '89.

Aldine Manufacturing Co.:

Gentlemen—I am well pleased with the Aldine Patent Fire Place. It has great attraction; besides a good chimney draft, it draws in the evening all the household around it. They enjoy its pleasant heat and brilliant illumination. It is cleanly and easy to manage, ashes dump into pit in cellar. It burns hard coal, keeps fire all night equal to our coal stove; it also burns wood as well as any fire place. With mantel and tile it is very handsome. We have no trouble to keep warm floors.

Respectfully,

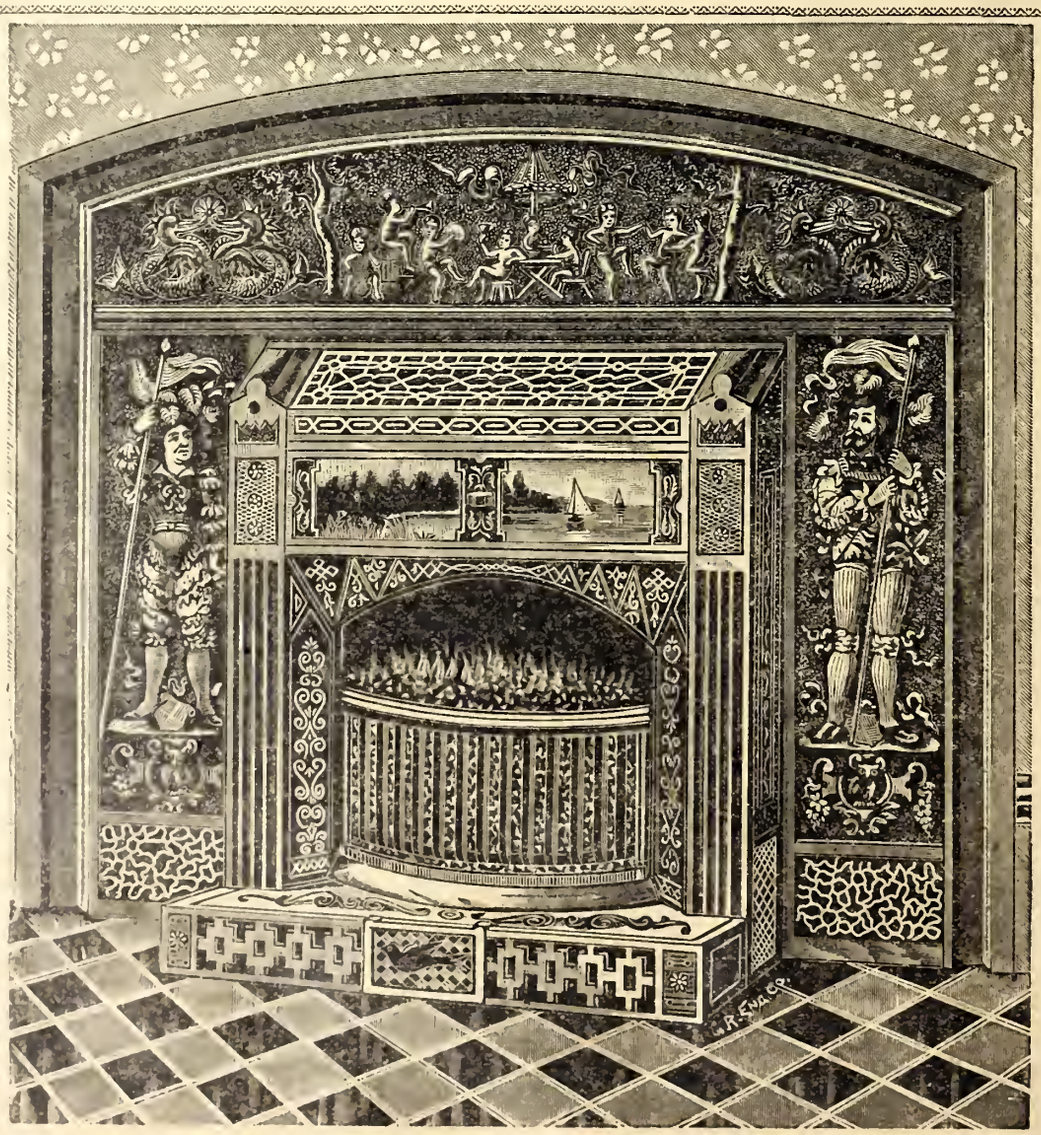
E. B. CAMPBELL.

REGISTER'S OFFICE,
WASHINGTON, D. C., Dec. 18, 1889.

Aldine Manufacturing Co.:

Gents– After using the Aldine two years I feel willing to confirm all that is claimed for it. I consider it indispensable.

A. B. CHATFIELD.



The above represents the ALDINE and FACE PLATE No. 1, handsomely finished in bright copper, antique brass and antique bronze.

P. L. DICKHUT,
Real Estate, Insurance and Loan office.
QUINCY, ILL.,
Jan. 20, '90.

Aldine Mfg. Co.:

Gentlemen—On yesterday we celebrated our eighth anniversary with Dr. Lewis and family at dinner. After dinner we gathered about the "Aldine" and enjoyed its brightness and warmth very much. Agreeable to your instructions I had the Aldine taken out and set according to directions given. The result is, that the grate is now a complete success, and to say that we feel repaid for our trouble, is putting it mild. The grate as now placed is not alone a source of comfort, but an ornament to the house as well. We have it surrounded with a fine antique oak richly carved mantel, the whole presenting a pleasing and handsome appearance. We take pleasure in recommending the Aldine to our friends. Wishing you every success for '90, I remain, yours very truly,

P. L. DICKHUT.

CHAMBERLAIN, S. D.,
Nov. 6, '89.

Aldine Mfg. Co.:

Gentlemen—I am glad to say that the Grate works well and we are well pleased with it. Shall order another for our dining room soon. I believe them to be the best grate ever invented.

Very respectfully,

CLARK S. ROWE, Attorney.

GRAND RAPIDS, Jan. 17, 1890.

Aldine Manufacturing Co.:

Gentlemen—Answering your query of a few days ago, it pleases me to inform you that the Aldine Fire Place is doing for me more than you claimed. We are heating double the amount of room that you intimated. It makes the floors warm, furnishes an agreeableness of heat and better sanitary conditions than we ever saw before.

Very truly yours,

C. C. SEARLES.

SHERIFF'S OFFICE, KENT CO., MICH.
GRAND RAPIDS, MICH., Jan. 17, 1890.

Aldine Manufacturing Co.:

Dear Sirs—We have used one of your Grates in our house since last October, and it has given perfect satisfaction. It will keep fire over night as well as any stove, with as little fuel. Yours respectfully,

HARMON COWENS,
193 James Street.

PARSONS'S COLLEGE,
REV. H. B. KNIGHT, M. A., Prof. of Mathematics.
FAIRFIELD, IA., Jan. 15, '90.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Fire Place which I purchased of you last August does all that you claim for it. It is economical of fuel (I use coke and soft coal), cleanly, cheerful and a constant source of pleasure to the family. The combustion is perfect; I have never found a clinker in the grate. It keeps fire through the night without any trouble, and an even degree of temperature is produced in all parts of the room, and the ventilation is perfect.

Yours very truly,

H. B. KNIGHT.

GRAND RAPIDS, MICH., Jan. 15, '90.

Aldine Manufacturing Co.:

Gentlemen—You ask me what I think of the Aldine Fire Place you placed in my residence last year. I think it is the best grate I ever saw. A person can get more solid comfort, a pure atmosphere and a pleasant condition of temperature, for the least amount of money, feel better satisfied, and have more charity for his local coal dealer in the spring, from operating an Aldine Fire Place through one season, than can be obtained from any other grate I know of, and we endorse all you claim for the Aldine.

Yours truly,

EDWARD ANSORGIE.

BRYAN, O., Dec. 30, '89.

Aldine Manufacturing Co.:

Gentlemen—I am highly pleased with the Aldine. A thorough trial convinces me that it will, under all circumstances, fulfill the claims made for it. The pleasure and comfort it affords is worth to me many times its cost.

Very respectfully,

ROBT. N. PATTERSON,
Bryan Democrat.

RIVER FOREST, ILL., Jan. 13, '90.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place you put in for me has been perfectly satisfactory. I cannot speak too highly of the Aldine, and hope to have one in every house I ever own or live in. Very respectfully,

GEO. W. HOMER.

W. C. WILE, A. M., M. D.,
Editor "New England Medical Monthly."
DANBURY, CONN., Nov. 11, '89.

Aldine Manufacturing Co.:

Gentlemen—I beg to say, that of all the heating apparatus which I have ever tried during twenty-five years of house-keeping, the Aldine Patent Fire Place takes the very first place, and is the ideal. It is cleanly, perfect in action, easily regulated, economical, a great heater, and a beautiful ornament. I would not be without it for any money, if I could not replace it. It is a good illustration of the old and time-worn saying, "A thing of beauty is a joy forever." You have the privilege of referring to me any time you like.

Sincerely yours,

W. C. WILE.

AKRON, N. Y., Jan. 6, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Patent Fire Place which I purchased of you last October, is giving the very best satisfaction. Would not be without it for three times its cost. Should have written you sooner, but thought to give it a thorough test before doing so. I am,

Yours truly,

W. N. HOAG,
Dealer in Lumber, Shingles, Doors, etc.

CHICAGO, ILL., Nov. 8, 89.

Aldine Manufacturing Co.:

Gents—The writer is in receipt of yours of the 4th inst., and in relation to the No. 22 Aldine Fire Place, which the writer purchased of you in February of this year, would say that it gives excellent satisfaction, and nothing that the writer could say could over estimate his opinion of its merits, as it is most satisfactory in every particular. We run it last spring and this fall, when without it, it would have been necessary to have started the furnace fire.

You may use my name for reference any time you desire.

Yours truly,

W. T. BROWN.

SCHUYLER FALLS, N. Y., Dec. 19, '89.

Aldine Manufacturing Co.:

Dear Sirs—Your mantel reached me yesterday in good order; it is a beauty. The Fire Place continues to work to our entire satisfaction. You have certainly discovered a new principle, by which you combine beauty, economy and utility. Enclosed find check.

Yours truly,

DR. E. A. BARNES.

WEST MENTOR, O., Nov. 11, '89,

Aldine Manufacturing Co.:

Dear Sirs—I have now been using one of the Aldine Grates sufficiently long time, enough to test its merits, and find I am well satisfied with it, and would not be without it for all the stoves I have ever used. It takes less fuel and burns all kinds, so that it is a most convenient fire place for all seasons. It is ornamental and equalizes the temperature, keeps fire over night, and is a good ventilator. Will cheerfully recommend it to any one who wishes to purchase.

Respectfully,

HELEN P. BLISH.

ANN ARBOR, MICH., Jan. 13, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place you shipped me in April last, the one the year before that for Mr. Scott, and the two shipped to Mr. Hutzel since, are giving good satisfaction. Respectfully,

J. A. GATES.

LINDSBORG, KAN., NOV. 12, '89.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place we bought of you and put in our bank gives good satisfaction. It is just what we wanted. The only reason why I did not get one or two for my residence, after I tried the one in the bank, was that my wife objected to tear things up so late in the season. But next summer if I live you can count on an order for one or two for myself sure. Yours truly,

JNO. A. SWENSON, Cashier.

SMITH, NIMS, HOYT & IRWIN, Attorneys.
MUSKEGON, MICH., NOV. 8, '89.

Aldine Manufacturing Co.:

Gentlemen—Replying to yours of the 4th inst. It affords me pleasure to say that the Aldine Fire Place put in my residence a year ago, has been very satisfactory. I can cheerfully recommend the Fire Place to those wishing anything in that line. Yours very truly,

DAVID D. IRWIN.

GRAND RAPIDS, MICH.,
Jan. 18, '90

Aldine Mfg. Co.:

Dear Sirs—The experience I have had with the Aldine Fire-Place and Grate which I placed in my new house last October, will say, it supersedes all my expectations. I consider it the best heating and ventilating devise in the market. Two buckets of good No. 4 Lehigh coal will run it nicely 24 hours. It is complete in all its parts and more than it claims for itself. If I could not get another I would not do without it for three times its cost. It certainly stands to-day without a rival in my opinion.

M. G. BLOOD.

GALLATIN, MO.,
Jan. 18, '90.

Aldine Mfg. Co.:

Gentlemen — Since writing you we have had some severe winter weather, and my Aldine passed the ordeal splendidly. I am well pleased and believe that it is more economical of fuel than any heater. The comfort it gives in ventilation is worth its price in one winter. Yours truly,

J. T. ALLEN, M. D.

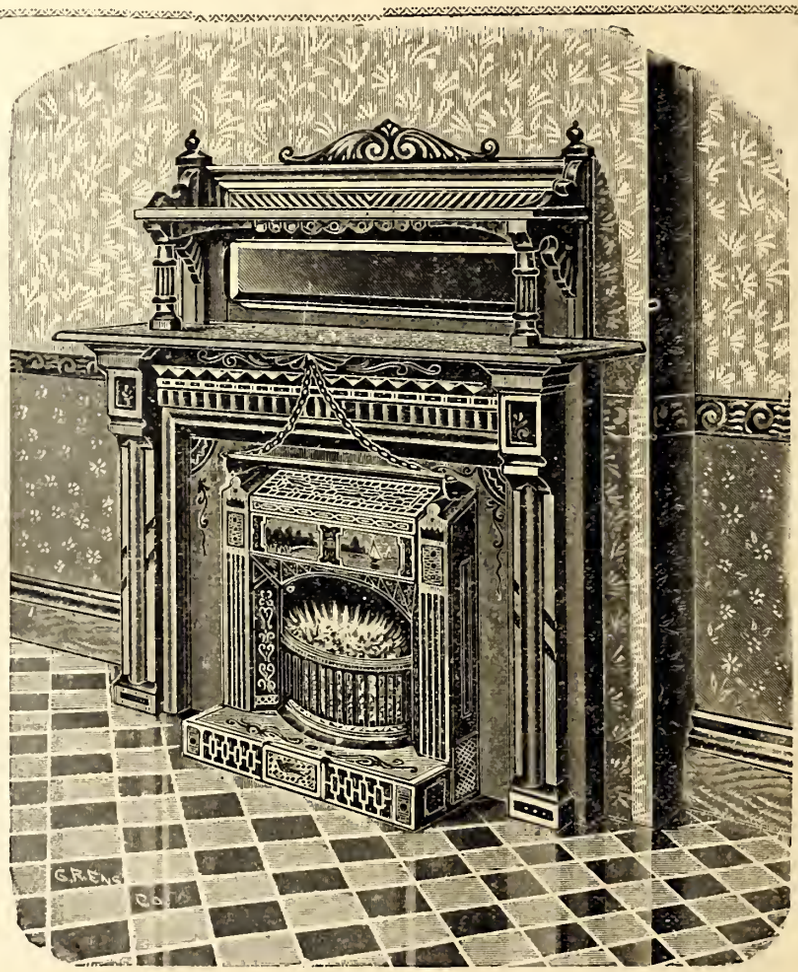


PLATE NO. 10.

This is the ALDINE FIRE-PLACE as it appears under a wood mantel The HOOD shown above the grate thoroughly protects the mantel from the heat, so that the finest finish is not injured. It is made of a piece of sheet metal, finished in bronze, brass, copper or nickel, and is attached to the mantel or grate either by fancy chains, as shown, or with screws.

GRAND RAPIDS, MICH.,
Jan. 17, '90.

Aldine Mfg. Co.:

Dear Sirs—The Aldine Grate which you placed in my dwelling last September works to a charm. I have given it a thorough trial, and I find it an excellent ventilator, and at the same time reflects a great portion of its heat upon the floors, which I consider very important. We have no annoyance from smoke.

Yours truly,
W. COLE.

AUGUSTA, MICH.,
Jan. 17, '90.

Aldine Mfg. Co.:

Dear Sirs — After a thorough trial I can say that the Aldine Grate is perfectly satisfactory in every respect. I am thoroughly convinced that the Aldine is far superior to any grate that I know of. It is perfect in its construction for radiating heat and also for ventilation. I can heartily recommend it to those wanting grates.

Yours, etc.,
J. H. FISHER, M. D.

DARLINGTON, WIS., JAN. 1, '90.

Aldine Manufacturing Co.:

Gents—Our trial of the Aldine Fire Place has been a grand success. The heat coming into the room exceeds our expectation. Truly yours,

HON. H. H. GRAY.

Office of D. C. WOOLVERTON.
BELVIDERE, ILL., Dec. 21, '89.

Aldine Manufacturing Co.:

Gentlemen—The Fire Place I bought of you in 1888 is all right, operating fine and giving entire satisfaction.

Yours with respect,
D. C. WOOLVERTON.

WASHINGTON, IA., JAN. 12, '90.

Aldine Manufacturing Co.:

Gentlemen—Yours of the 2d inst. only reached me yesterday at Burlington. In reply, will say that the more we use the Aldine the more fully we become convinced that we got just what we wanted when we selected the Aldine in place of a stove. It keeps fire over night same as a baseburner, and all who come in to see it say they will put one in another season. You can refer to me in my part of the country any time, and Mrs. Pinney will be only too glad to show it up to any one who may call to see it when I am away. Yours very truly,

E. D. PINNEY.

WHEATON, ILL., Dec. 21, '89.

Aldine Manufacturing Co.:

Sirs--In regard to the Aldine Fire Places put into my house in September, 1888, I would say that they give perfect satisfaction. They give as much heat as two ordinary fire places, and that with half the fuel.

Yours truly,
J. Q. ADAMS.

HIAWATHA, KAN., Nov. 2, '89.

Aldine Manufacturing Co.:

Gentlemen—I have received your circulars, and it affords me great pleasure to recommend your grate, for I am delighted with its satisfactory operation. Two have been put in here this summer on my recommendation. I have put a wood mantel over one of mine, which adds somewhat to its appearance. Very truly yours,
HENRY J. ATEN, Banker.

CHICAGO, ILL., Nov. 4, '89.

Aldine Manufacturing Co.:

Gentlemen—Yours of the 1st duly received. Our experience with the Aldine has been most satisfactory. After a year's use we feel very well pleased with it.

Very truly yours,
A. S. LAKEY, 487 E. 42d St.

PARSON'S COLLEGE,
REV. H. B. KNIGHT, A. M., Prof. of Mathematics.
FAIRFIELD, IA., Nov. 11, '89.

Aldine Manufacturing Co.:

Dear Sirs—I have the Aldine Fire Place set and satisfactorily at work. It will and does do all you claim for it. It gives a very hot cheerful fire, equalizes the temperature, and removes the cold air from the floor. The room above is delightfully warmed by the register from the chimney.

Very truly yours,
H. B. KNIGHT.

BURLINGTON, VT., Dec. 16, '89.

Aldine Manufacturing Co.:

Gentlemen—The Fire Place works all right, and is giving good satisfaction. Respectfully,
A. B. KINGSLAND.

EATON RAPIDS, MICH., Nov. 16, '89.

Aldine Grate Co.:

Gents—The Aldine Grate is in perfect operation. If I could not get another like it, no money would take it from us. It combines all the useful as well as the ornamental elements. It is a heater as well as being pleasant to sit by; an ornament to any room.

Yours truly,
DR. A. KNIGHT.

DIXON, ILL., Dec. 27, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine you sold us is working very satisfactory, doing all that you claimed.

Yours truly,
ALEXANDER & HOWELL.

SHELBY, MICH., Jan. 9. '90.

Aldine Manufacturing Co.:

Gents--The Aldine Fire Place came in good shape, and I have it placed. Will testify, that we have had the Aldine in and running two months or more, on wood, and it is all you claim for it. We would not be without it.

Truly yours,
H. WOODWARD.

BLACKMAN BROS., Commission, Grain,
Seeds and Provisions, 46 Board of Trade.
CHICAGO, ILL., Jan. 9, '90.

Aldine Manufacturing Co.:

Gents—Your grate is up in good shape. We have given it a thorough trial, and find it satisfactory in every respect. The grate almost answers the purpose of second furnace, and after using it would not be without it.

Respectfully,
BLACKMAN BROS.

LISBON, N. C., Jan. 9, '90.

Aldine Manufacturing Co.:

Gentlemen—We have the Aldine Fire Place in position, under a wood mantel, and it gives us entire satisfaction. Have used both wood and hard coal. I have no hesitancy in recommending it where an open grate is desired.

Yours truly
A. F. NORTON,
Gull River Lumber Co.

Office of G. V. LITCHFIELD,
Coal, Iron and Timber.
ABINGTON, VA., Jan. 9, '90.

Aldine Manufacturing Co.:

Gentlemen—I have the Aldine Fire Place in my sitting room, and it does well. It heats the room perfectly and does not consume more than one-half as much fuel as my other grates. I am more than satisfied with it.

Yours truly.
G. V. LITCHFIELD.

J. P. FELT, Pet Grove Oranges.
EMPORIA, FLA., Jan. 10, '90.

Aldine Manufacturing Co.:

Gentlemen—When I ordered the Aldine Fire Place I hoped great results from it. I am now happy to say that, after a thorough trial, it exceeds my expectations. A greater amount of heat is seldom needed in this climate. The Aldine is heating three large rooms on first floor, three large rooms and hall on second floor, and rooms 15x20 feet and 11 feet high certainly take some heat.

Yours truly
J. P. FELT.

Office of C. P. JUDSON & CO.,
General Hardware.
BIG RAPIDS, MICH., Jan. 11, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place is giving the best of satisfaction. We think it the best fire place we have ever seen. Yours respectfully,
C. P. JUDSON & CO.

C. C. BOWMAN, Miner and Shipper of
Pittston Anthracite, Blossburg Coke, etc.
PITTSTON, PA., Jan. 11, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place shipped us October 4, '89, has been in constant use since we received it. We have used pea coal. also grate size, and the fire has not been out as yet. To say that we are very much pleased with it does not half express the idea. We take great pleasure in showing it to our friends.

Yours very truly,
C. C. BOWMAN.

MOLINE, ILL., Jan. 8, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place sold me last spring is giving entire satisfaction. I think it the best heater I have ever seen. I heat two rooms 16 feet square.

Yours truly,
C. E. NASON.

W. C. EDSELL & SON, Bankers.
OTSEGO, MICH., Dec. 6, '89.

Aldine Manufacturing Co.:

Gents—We are well pleased with the two Aldine Patent Fire Places we purchased of you last fall, and think they do all you claimed for them. They are certainly a great improvement over any of the old grates in two respects: in the amount of heat and ventilation. I think them the best in the market. Respectfully,

W. C. EDSELL, Attorney.

PLYMOUTH, IND.,
Dec. 28, '89.

Aldine Mfg. Co.:

Gents—I received one of your Aldine Fire-Places last June. I had it placed in position in the corner of a room as in Plate No. 7 in your circular, and it works to a charm. So far it has warmed sufficiently two rooms, 14x15 feet, keeping the floors warm and a healthy and pleasant temperature, quite different than the dry heat from a base-burner or furnace.

Very respectfully,
S. L. McKELSEY,
Attorney.

SPIRIT LAKE, IA.,
Jan. 6, '90.

Aldine Mfg. Co.:

Gentlemen — The Aldine Fire-Place I bought of you is satisfactory in every particular and does all you claim for it. It beats anything in the shape of grate or fire-place I ever saw.

Very truly yours,
GEO. E. PEARSALL,
Cash. Dickinson County Bank.

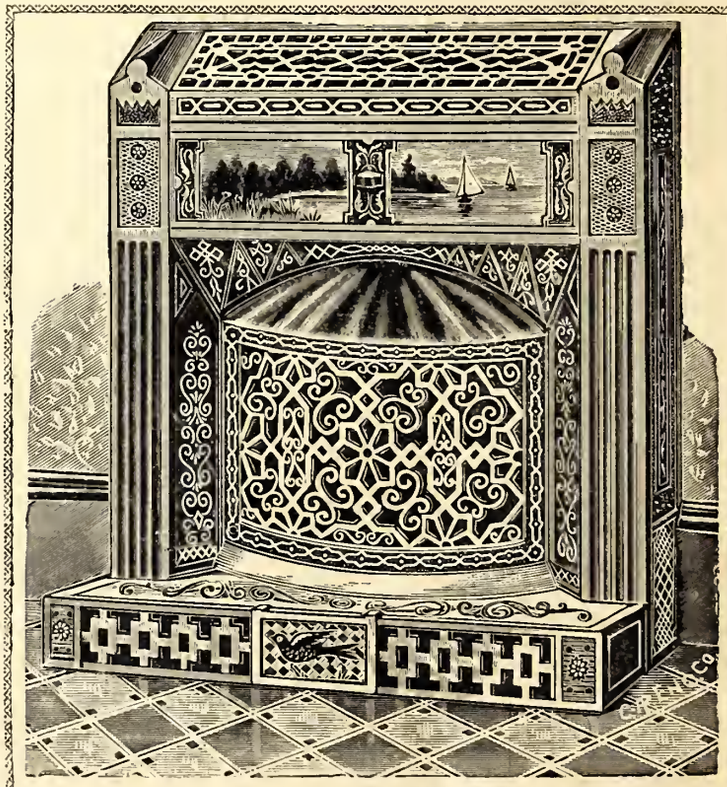


PLATE No. 18. SCENE PANEL.

An elegant Summer front, as shown in Plate No. 18; a blower and poker is furnished with all styles. No trouble with clinkers, as we use only the "Aldine Improved Shaking Grate." LIBERAL DISCOUNTS TO THE TRADE

DIXON, ILL., Dec. 4, '89.

Aldine Manufacturing Co.:

Gentlemen—We are perfectly satisfied with the Aldine Fire Place in every respect. In ordinary weather my fire place heats a sitting room, 12x15, with four large windows, a hall opening from it by sliding doors, 9½x13, and two rooms up stairs. Yours very respectfully,

MRS. PAUL G. LORD.

R. H. COTTON, Attorney at Law.
WELLSBURG, W. VA., Nov. 22, '89.

Aldine Manufacturing Co.:

Gentlemen—Of the three Aldine Fire Places I purchased of you to heat my eight room house, we have only used one of them up to date, it having done the work so nicely, that more was unnecessary, we simply left all inside doors open. We feel confident that at zero we shall not be required to use but two during the winter, and our house will be most comfortably warm. Several of our neighbors that have seen the Aldine in operation proclaim it superb, and say they will order soon. Yours with pleasure,

R. H. COTTON.

WINONA, MINN., Dec. 16, '89.

Aldine Manufacturing Co.:

Gents—Yours of the 13th inst. is received, and in reply will say, that we have used the Aldine Fire Place we bought of you, in our new brick office, since October, 1888, and same has given good satisfaction, and for beauty, durability and practical use, it cannot be excelled.

Yours very truly,
DOUD, SONS & CO.

HAVRE DE GRACE, MD.,
Nov. 29, '89.

Aldine Mfg. Co.:

Gentlemen—I am pleased with the Aldine Grate purchased of you and placed in my residence. It has given great satisfaction. It is easy to regulate and keep fire over night. It gives good ventilation and distributes the warm air evenly in all parts of the large room in which it is placed. Its finish is artistic and attractive.

Yours truly,
A. P. McCOMBS,
Pres. First National Bank.

NEFF & HICKS, Attorneys,
ALTOONA, PA.,
Dec. 10, '89.

Aldine Mfg. Co.:-

Gentlemen—We now have our Aldine Grate in position, and we are glad to say it does its work very satisfactory, and is all that we expected and all that you claim for it. It heats nicely and is certainly a thing of comfort as well as one of beauty.

Yours truly,
J. D. HICKS.

DEMING, N. M., Jan. 3, '90.

Aldine Manufacturing Co.:

Gentlemen—Enclosed please find paper with short article on third page on my appreciation of the Aldine Fire Place. It works very nicely; no trouble about getting all the heat required in the largest room, in this climate, on the coldest day. Yours truly,

WARREN BRISTOL.

HOOKER, O., Nov. 25, '89.

Aldine Manufacturing Co.:

Dear Sirs—We have the Aldine Fire Place in position. We are well pleased with it. It does all that you claim.

Yours truly, G. W. LAMB.

MOBILE, ALA., Jan. 4, '90.

Aldine Manufacturing Co.:

Gents—In answer to your favor of December 31, 1889, I will say that the Aldine Fire Places purchased from you last August, have been put in place, and give entire satisfaction. They give out more heat and take less fuel than any grate or fire place that I have ever seen, and I take great pleasure in recommending the Aldine to any one that is in want of an A1 Fire Place.

Respectfully,
JAS. W. DANIELS.

LAGRANGE, ILL., Nov. 18, '89.

Aldine Manufacturing Co.:

Gents—It affords me pleasure to say, that after my experience with the Aldine Fire Place you put into my new residence one year ago, that it gives entire satisfaction, and I fully endorse the poem of my old friend, Hon. E. G. D. Holden.

Yours truly,
C. J. DIETRICH,
Contractor and Builder.

PEGGY, MO., Nov. 18, '89.

Aldine Manufacturing Co.:

Dear Sirs—The Aldine Fire Place proves satisfactory in appearance as well as in its heating qualities. My mother says it is a good foot warmer. It keeps the floor warm, and keeps the air as warm near the floor as well as overhead. I think that every home should have the Aldine Fire Place.

Yours truly,
CHRISTOPHER ELLIS.

DR. JOSEPH D. CRAIG, 12 Ten Broeck St.
ALBANY, N. Y., Nov. 14, '89.

Aldine Manufacturing Co.:

Gentlemen—Your favor of the 4th inst., with reference to the Aldine Fire Place, has been received. There is no need of my going into details in regard to the excellent points of your fire place. Everything has been said when I endorse your statements in regard to it as fair ones, and in a reasonable way as representing its good points. Am thoroughly satisfied with it, and in practice it is a great success, and am glad to say a word in its favor.

Yours truly,
JOSEPH D. CRAIG, M. D.

4728 Greenwood Av.
CHICAGO, ILL., Dec. 23, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine heater placed in my house in September, 1888, has given entire satisfaction. I don't think the Aldine has a superior for ventilation, economy in use of coal, and genuine comfort. I always advise my friends who build, to put in at least two.

Very truly,
CHARLES LONGBRIDGE.

MARYVILLE, MO., Jan. 2, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place shipped me in Aug. last was placed in October. It is a complete success, and consumes so little coal that it is a matter of astonishment, certainly of importance. The floor is so warm, a complete remedy for cold feet. I could not do without it. I am conservative in recommending new things lest they might not suit others, yet I can say that the person who would not be pleased with the Aldine Fire Place must be very hard to please.

Yours with respect,
C. A. ANTHONY.

WESTERN DEPT. NATIONAL FIRE INS. CO.
of Hartford, Conn
PETOSKEY, MICH., Jan. 6, '90.

Aldine Manufacturing Co.:

Gents—Your of late date at hand; replying thereto, would say, that I had no difficulty in placing the Aldine Grate in my residence, and we think it is a beauty in every respect. Have been using wood only for fuel, and are perfectly satisfied with the results. We would not part with it for double the amount we gave for it. It does all you claim for it.

Very truly yours,
E. C. BARNUM.

DOW CITY, IA., Nov. 14th, '89.

Aldine Manufacturing Co.:

Gents—Replying to your favor of the 9th inst., will say, that the Aldine Iron Fire Place cannot be excelled. It does all you recommend it to do, and more too. I will say this much, that if anybody wants a Fire Place that will heat up their rooms, and have a nice fire to get up to in the morning, and not use as much coal as the ordinary base burner, then they want the Aldine. I take pleasure in showing it.

Yours, etc.,
BEN HEATH.

NEW WOODSTOCK, N. Y., Nov. 8, '89.

Aldine Manufacturing Co.:

Gentlemen—Last winter I saw your Fire Place advertised in the Century, sent for your circular and found the Aldine to possess the qualities that I have been looking for in a fire place, and immediately ordered one. By following your directions I found no trouble in setting it so that it works complete. It sets in a partition and is piped to a common chimney with eight-inch pipe. Have used wood and coal. It is used to heat three rooms, 13x14 each, and does it nicely; the air is always pure. It is artistic, economical and healthful. I am very much pleased with it, and can truly say that the Aldine Fire Place does all that you advertise it to do.

Respectfully,
N. P. WARNER, M. D.

QUINCY, ILL., Jan. 3, '90.

Aldine Manufacturing Co.:

Gentlemen—In reply to yours I wish to say the Aldine Fire Places were received in good condition. The fire places are now working nicely, and we find them just the thing for sitting rooms or bed rooms. With my grate I can heat nicely, sitting room, 19x18, and bed room over it but little smaller, and in mild weather can heat two and three rooms down stairs and one up stairs. It is also economical; on mild days one scuttle of coal will keep a pleasant fire all day (12 hours), and one and one-half scuttles runs 24 hours. Very cold weather will take more, but I have never used more than two scuttles of grate coal in 24 hours, keeping fire over night without any trouble. I am thoroughly satisfied with my fire place.

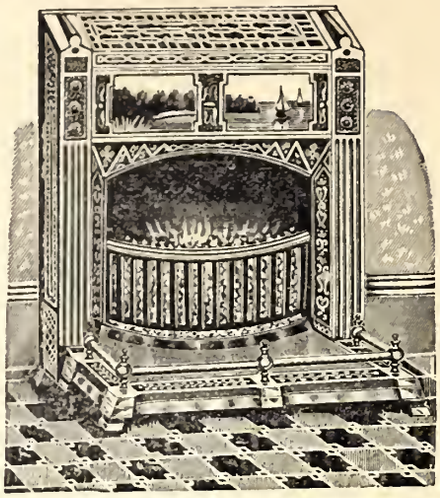
Yours very truly,
J. Y. LEWIS, M. D.

Law Office of J. C. ELWELL.
PUEBLO, COL., Jan. 11, '90.

Aldine Manufacturing Co.:

Gentlemen—I have placed one of your fire places in my house, constructed to heat four rooms. By closing the register in one of the lower rooms it will heat the one lower room and two upper rooms. It uses only one hod of hard coal in 24 hours, gives a bright, cheerful fire, warms the floors and is the best thing we have in the house.

Very respectfully,
J. C. ELWELL.



Showing Wide Fender mounted on Wood Castors, with Fancy Post and Rod Trimmings, as above.

In all the finishes THE ALDINE is provided with an Electro Steel Center, which is not only new and handsome, but will not tarnish from heat.

Office of BRADLEY, RAMSEY LUMBER CO.
LAKE CHARLES, LA., Jan. 13, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place in Electro Bronze, that you shipped for the hall of my new residence here, was placed in position without the slightest trouble, and is giving perfect satisfaction. It fills the bill exactly, both for ornament and comfort. I have eight fire places in my house; none of them compare with the Aldine, and the only change I would make if building over again, is that I would put in all Aldine Fire Places. It is quite possible that the coming summer, during the absence of my family, I may take out one or two of the others and put in some more Aldines, in which case you will hear from me again.

Very truly yours,
WM. E. RAMSEY.

MARION, IA., Nov. 11, '89.

Aldine Manufacturing Co.:

Gentlemen—We are using one of your grates, and are highly pleased with same. Consider it the best grate in all its workings on the market.

Respectfully,
ELLIOTT DAVIS LUMBER CO.

LAFAYETTE, IND., Nov. 4th, '89.

Aldine Manufacturing Co.:

Dear Sirs—We think it due to you to inform you how satisfactory the Aldine is operating with natural gas. As a ventilator it is simply perfect, a point so necessary in the use of natural gas. Yours very truly,
HOWE & SHIPLEY.

FENTON, MICH., Oct. 31, '89.

Aldine Manufacturing Co.:

Gents—I am very much pleased with my grate. It does all you claim. Hastily yours,
H. B. LATOURETTE.

TAYLOR & BRUNTON SAMPLING WORKS CO.
ASPEN, COL., Jan. 4, '90.

Aldine Manufacturing Co..

Dear Sirs—The Aldine Fire Place sent to us last August is in constant use, and gives entire satisfaction.

Yours truly,
TAYLOR & BRUNTON.

Office of W. H. THOMAS, M. D.,
111 State Street.
ELKHART, IND., Nov. 29, '89.

Aldine Manufacturing Co.:

Gentlemen—The two grates I bought of you are a success in every sense of the word. I do not see how they can be improved upon. Yours very truly,
W. H. THOMAS, M. D.

JOLIET, ILL., Nov. 8, '89.

Aldine Manufacturing Co.:.

Gentlemen—The Aldine Fire Place you shipped me last March was put in position at once. We used it during the spring and again this fall, with a great deal of satisfaction, heating three large rooms and one sleeping room until a few days ago. We think it superior to anything of the kind ever seen. Yours, E. H. STEWART, D. D. S.

1212 Hyde Street.
SAN FRANCISCO, CAL., Dec. 4, '89.

Aldine Manufacturing Co.:

Gents—I have had two of your patent Fire Places in use about six months, and think they are all you represent them to be. I must say they are a great saving in fuel, and heat my house better than anything I have ever tried.

Yours truly, B. G. LATHROP.

DELHI, N. Y., Jan. 6, '90.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place gives entire satisfaction. We are using it every day, and it does all that I expected. I would fully recommend it to all wishing a fire place. I have tried it with wood and hard coal; it works equally well with both. Yours respectfully,
J. B. PEASTER.

The above cut represents our MANTEL PLATES, made to surround the ALDINE FIRE-PLACE and fit any seventeen six-inch tile opening in wood mantels. They are handsomely finished in relief, in brass, copper, bronze, nickel and old silver finish; are much handsomer than tile facings and more durable, cost being about the same; do not require the services of a skilled workman to place in position, as is the case with tile. They are simply bolted together and screwed on the back of the mantel opening, the Aldine Fire-Place front fitting the inner edge.

It is not necessary to use tile floor hearth with the Aldine Fire-Place, unless it is so desired. By omitting the floor hearth it effects quite a saving to the purchaser, inasmuch as it avoids cutting carpets, cutting out the floor, springing an arch, buying a hearth pattern and cement, and paying some one to lay same in position. A rug thrown on the floor in front of the fender produces a much more modern and neater effect than the old style floor hearth. Any good mason can readily place the Aldine Fire-Place in proper position.

SHAWANO, WIS., Dec. 23, '89.
THE UPHAM & RUSSELL CO.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place sent me Sept. 10, 1888, was set up and has been in use, and gives entire satisfaction. Yours truly,

CHAS. M. UPHAM.

WATSON BROS. & HITCHCOCK,
Plumbing and Metal Roofing a Specialty.
MARINETTA, WIS., Nov. 8, '89.

Aldine Manufacturing Co.:

Gentlemen—The No. 22 Aldine Fire Place we put up last spring has given perfect satisfaction, and our customer says it is all you claim it to be.

Yours truly,
WATSON BROS. & HITCHCOCK.

MARION, IA., Nov. 8, '89.

Aldine Manufacturing Co.:

Gents—I am glad to inform you that the Aldine Fire Place I put in last spring is a perfect success, and every way as represented to me. We burned hard coal all through October without the fire going out, and it gives good heat and ventilation. Shall want another one next year.

Yours truly,
GEO. E. LILLIE.

BOSTON, MASS., Nov. 12, '89.

Aldine Manufacturing Co.:

Gents—The open Fire Place has just been put in a new house. We started a fire in it last week and it worked splendidly. Yours truly,

D. LOTHROP CO.,
Publishers, 114-120 Purchase St.

HERSMAN, ILL., Dec. 31, '89.

Aldine Manufacturing Co.:

Gentlemen—I am pleased to say the Aldine is entirely satisfactory. It is much pleasanter than a stove for heating purposes. Yours truly,

G. J. HERSMAN.

KENOSHA, WIS., Nov. 12, '89.

Aldine Manufacturing Co.:

Gentlemen—The tenant occupying the house in which we put a No. 22 Aldine Fire Place last summer, is highly pleased as to its beauty, utility and healthfulness. This as we know is more than can be said of a large percentage of open fires. Yours truly,

FRANK H. LYMAN.

FARMER VILLAGE, N. Y., Nov. 9, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine was received all right, and was set according to directions. It gives perfect satisfaction.

W. W. CLARKSON,
Carpenter and Builder.

PEOPLE'S SAVINGS BANK, T. L. FRENCH, Prest.
WAHPETON, DAK., Jan. 8, '90.

Aldine Manufacturing Co.:

Gentlemen—In regard to your inquiry how we like the Aldine Fire Place, purchased from you last fall, will say, that it exceeds our expectations. It heats and draws finely, and is a great improvement over the old style fire place. Would not think of going back to the old fashioned open grates. Yours truly,

T. L. FRENCH, Pres't.

CENTRILLA, KAS., Jan. 1, '90.

Aldine Manufacturing Co.:

Gentlemen—Yours of the 30th received, and in reply will say, I received the Aldine Fire Place in good order, and it gives perfect satisfaction. I consider it more economical and a great deal cleaner than a coal stove. I am going to order another between this and spring. Hoping this will be as satisfactory to you as the Aldine is to me, I am,

Most truly yours,
T. M. DURLAND.

NORTH LOUP, NEB., Dec. 31, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Grate sold me works splendidly, burning either soft or hard coal nicely, and warms the room evenly, consuming no more fuel than a stove.

Respectfully,
E. J. BABCOCK.

STURGIS, MICH., Nov. 4, '89.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Places that you shipped me in 1888 are in practical operation, and give good satisfaction. The one in my residence is in good working order, and for a fall and spring heater, can't be surpassed. In midwinter I use my furnace with a little fire, giving all the heat required. Respectfully yours,

J. M. BARROWS,
Architect and Builder.

GRAND HAVEN, MICH., Oct. 3, '88.

Aldine Manufacturing Co.:

Gents—We are using the Aldine with hard wood, and it gives the best of satisfaction, not only as a heater, but is admirable in its ventilation, and adds so much to the comforts of a home. Yours truly,

JAMES BARNES.

NEW BRUNSWICK, Jan. 8, '90.

Aldine Manufacturing Co.:

Gentlemen—I am very much pleased with the Aldine Fire Place. We find that it is all that you claimed, a perfect ventilator, economical, no trouble to keep fire over night, and not only heats the room in which it is placed, but has also heated two connecting rooms. I consider it a perfect success and superior to any stove.

Yours truly,
THOS. E. TOWNSEND.

TYRONE, PA., Jan. 6, '90.

Aldine Manufacturing Co.:

Gentlemen—The Aldine Fire Place is set in my library, and gives good satisfaction. It also does good work in the heating of a bed room above library. It is both ornamental and useful. Hastily yours,

H. M. OBERHOLTZER.

THE ROCHESTER MORNING HERALD,
S. H. LOWE, Editor-in-Chief, 30 and 32 Exchange St.
ROCHESTER, N. Y., Jan. 9, '90.

Aldine Manufacturing Co.:

Gentlemen—Regarding the Aldine Grate, will say, it has met my most sanguine expectations. We burn hard and soft coal with equal satisfaction, and find it a perfect heater. I can cordially recommend it to all. I shall put one or two in every house I build. I am truly yours,

SAMUEL H. LOWE.

DIRECTIONS

FOR

SETTING UP THE ALDINE FIRE-PLACE.

WHEN to be set into a chimney opening, in place of a common grate, remove a layer of brick from the base of the opening to admit of dropping the heating chambers 4½ inches below the floor level. If the ash dump is designed to be used, place the pipe (letter E, Plate 66) in position, and connect the ventilating pipe F (made of tin or sheet iron four inches in diameter). The smoke pipe is next put together in chimney opening, a length at a time, and shoved up the chimney flue higher than needed, then put the grate in position, slip on the front and adjust the grate, having it plumb; also level on top of the pilasters, leaving the desired space to be occupied by the mantel between the grate front and the chimney breast. When in position, pull down the smoke pipe on the collar of grate (see letter D, Plate 66). See that the damper turns freely, then brick up tightly around the body of the grate on both sides and back, bricking same solidly into the chimney opening. Then brick up on top of the fire place around pipes F and D as shown by letter C plate 66. Care must be taken to effectually brick up the throat of the chimney flue and concentrate the entire draft on the smoke and ventilating pipes in such a manner that there shall be no leakage. It is well to have these pipes extend one or two feet above the brick work in order to avoid any eddies or dead air chambers, and to insure a steady pull of the draft on the smoke pipe. After which hang on the front, bolt the ash pan in place, and the work will be done. If a straight smoke pipe will not enter the flue and fit on the grate properly, have your tinner make an offset as shown in plates 44 and 66. Use eight inch diameter pipe in all cases, made of No. 22 galvanized iron, with round elbows. Avoid all square angles or turns in either smoke pipe or chimney flue, which will obstruct the easy flow of the draft.

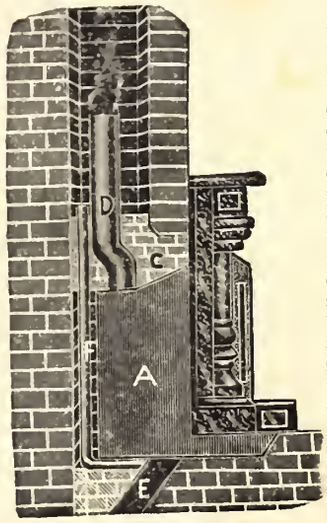


PLATE 66.

Where for want of space it is not convenient to brick up on the grate, as represented in plate 66, a flue sheet can be made as represented in plate 20 in circular, by taking a piece of sheet iron double the size of the chimney flue, bending down the edges and cutting out the corners in such a manner that the flanges can be nailed to the sides of the flue (the square part in which an eight inch hole has previously been cut in the centre to admit shoving the smoke pipe through) filling the flue; all must be tightly done, as it is absolutely necessary that the draft shall be effectually concentrated upon the smoke pipe of the grate.

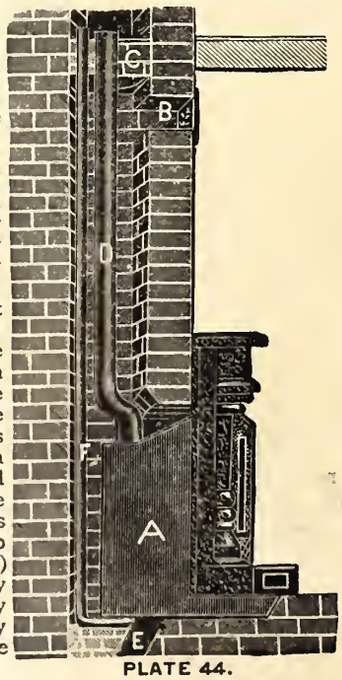


PLATE 44.

Where it is desired to place the Aldine Fire-Place in position as in Plate 44, with a view to getting a circulation of air over the back of the jacket and the pipe, thus utilizing the heat contained therein and helping to get a circulation of warm air, or where rooms are desired to be heated in the second or third story, omit bricking the body of grate solidly into the chimney opening, and let the smoke and ventilating pipes extend up to a point where the draft is desired to be concentrated on the smoke pipe. This can be done by removing a few bricks from the chimney at a point just above the upper register, driving a few spikes into the chimney flue and with brick and stucco, or mortar, effectually bricking off around smoke and ventilating pipes, make tight, as the draft of the chimney flue will have a tendency to draw the warmed air up the smoke pipe in case the joints are left loose and open. It is only necessary to provide a chimney flue having a good draft and to effectually concentrate this draft on the eight inch diameter smoke pipe of the grate in such a manner that there shall be no leakages to insure the perfect working of the Aldine Fire-Place. In cases where new chimneys are to be constructed we would advise, where soft coal and wood are designed to be used as fuel, a chimney flue of at least 96 inches square (say 8 by 12 inches). Where hard coal, crushed gas coke, gas or peat are designed to be used as fuel, a chimney flue of 64 inches square (say 8 by 8 or 4 by 16) is all sufficient. It is not necessary to build the smoke pipe into the flue for the Aldine; this pipe can be put together a joint at a time within the chimney opening before the grate is placed in position. It can be shoved up three or four inches higher than wanted; when the grate is in position the smoke pipe can be pulled down and adjusted on the collar of the grate in such a manner that the damper of grate will work freely. Next the smoke and ventilating pipes are bricked around at letter C, Plate 44, concentrating the draft of the chimney flue on the smoke and ventilating pipes.

In cases where large amount of heat is required in the second, third or fourth story rooms, tap the top of the jacket between the grate front and the smoke pipe with a three or four inch diameter hole. This will allow a large amount of heat to pass up the heating chamber, entering the room above when the registers are open, giving at the same time all the direct radiating heat, producing warm floors and perfect sanitary conditions for the room in which the Aldine is being operated. In setting the Aldine in cases represented by Plates 44, 1 and 5, follow directions for Plate 66, excepting that you brick up at letter C, as in Plate 44, and leave the space on the grate as represented in same plate. Putting into position as in Plate 44, converts the chimney flue (up to the point bricked off at letter C) into a heating chamber, and gives a circulation of the coldest air in the room over every square inch of grate surface, also the outside of the jacket and smoke pipe, thus utilizing very nearly all the heat contained in the fuel. In a chimney already built, a few bricks can be taken out a point (see letter B, Plate 44) to admit the work of bricking off being done. Care should be taken not to drop pieces of brick and mortar into the smoke pipe of grate when setting.

To construct a false chimney breast, use 2x4 studding, lath and plaster, cost of which will be nominal. Where the grate is to be placed in a partition, cut out the opening 36 inches square. Also cut out space in the floor for the grate to set on one inch larger than the base covers. Construct a false bottom with sides, lay a course of brick and mortar on this false bottom, leaving a space of 4½ inches from the top of the layer of brick to the top of the floor to set the grate on, then fill in the extra one inch space all around the grate to the top of the floor, with cement or stucco.

Use a thimble in the chimney when piping to a common chimney flue, so that the contraction and expansion of the smoke pipe will not crumble out the mortar, thus creating a defective draft. In cutting out a partition, see that the open space between the plastering in the partition where cut out is closed up tight on top and at the sides to prevent the warm air from being drawn up between the plastering in the partition; a board can be fitted in this space and plastered over like a common wall. Notice in the illustrations in circular, that a false chimney breast can be constructed in most any portion as well as across the corner of the room. This false chimney breast hides the pipe, which can enter the common chimney below the ceiling, or it can enter the room above through a thimble in the floor, like an ordinary stove pipe, and enter the chimney wherever located in the story above. (See Plate 6 in circular.) Use round elbows in the smoke pipe at all times, and see to it that the pipe is made in such shape as not to obstruct the free passage of draft, always keeping capacity as before stated of an eight inch pipe.

The Aldine front covers 32 inches wide by 33 inches high, and requires an opening in the chimney 26 inches wide (24 will do), 32 inches high (30 will do), and 14 inches deep from the front of the face plate of the mantel.

In building a new chimney for the Aldine Fire-Place, let the opening be 36 inches high, depth and width same as above. This better enables bricking up around the smoke pipe on top of the grate. In

piping to a common chimney, always bear in mind that with a good fair draft the pipe can be elbowed in any direction the same as an ordinary stove pipe. A chimney flue should be made the same size from bottom to top and smooth on the inside.

In piping down through the floor and away in the cellar or basement to the chimney, always use an 8 or 10 inch pipe with round elbows, and see to it that the pipe when together is tight; it should also be riveted. The pipe should then be wound with asbestos paper or some other non-conductor of heat, or the smoke pipe should be a pipe within a pipe, leaving space of one inch or more all around the smoke pipe. The use of asbestos paper or a pipe within a pipe is to prevent the cold damp air from chilling the pipe, which would greatly retard the draft. It is not necessary to use a tile hearth with the Aldine Grate unless so desired. The floor and carpet can extend to within one inch of the heating chamber; this one inch is filled with stucco or mortar when setting, the fender covering same. The manner of omitting the tile hearth is perfectly safe and not only effects quite a saving but is considered more desirable by many. Inasmuch as a rug thrown on the floor or carpet in front of the fender is much neater and more modern than the old style floor hearth.

Fuel. When using hard coal fuel, size No. 4 is desirable. If your market does not afford this size, use half stove and half chestnut thoroughly mixed. Where the fuel is too fine it lies so compact in the fire-pot as to prevent free burning. On the other hand, if too coarse, it will allow of so much circulation through the fire that it chills the fire.

Directions for Operating the Aldine Fire-Place.

In starting a fire put on the blower until the flames come up freely through the fuel, then remove it, keeping the damper closed. When the damper is open, products of combustion pass directly up into smoke pipe as in ordinary direct draft grates, but if closed the hot smoke and gasses pass down into the combustion chambers and are not only consumed there, but impart their heat to the iron surfaces traveled over, which heat creates the draft that draws the cold air from off the floors, passing over this heated plate surface, utilizing the heat by its contact therewith and passes back into the room heated, thus producing warm floors, getting up a circulation of air and equalizing the temperature from floor to ceiling. In replenishing the fire, care should be taken not to throw coal over into the down smoke pipe (See letter E, Plate 21, circular). In case it should be, or the flues should require cleaning, to do so pull back the hearth, remove the front of the ash pan and unscrew the two bolts in front corners of heating chamber; then remove the clean-out cover, this will enable the flues to be cleaned with a common poker, after which replace as found, using stove putty to insure its being tight. Do not let the ashes accumulate and clog the grate. If allowed to do so the fire will not be bright. Keep the ashes removed from the grate the same as in a hard coal stove. When shaking down insert the poker under the fuel and on top of the grate, running it clear to the back side, in order to displace the ashes and prevent their banking up in the back of the fire-pot. Always keep the ashes removed from the pan in order that a free circulation of air may be had under and up through the fuel. If the ashes are allowed to bank up underneath the grate the result will be to burn out the grate the same as would be the case with coal stove or furnace of any description under like circumstances. Use less fuel if less heat is needed.

WILKESBARRE, PA., Dec. 24, '89.

Aldine Manufacturing Co.:

Gentlemen—In regard to the fire place shipped me in October, 1888, would say, that Mr. Kennedy, who moved into the house as soon as it was completed, and is still occupying it, is very highly pleased with the working of the Aldine. He says the Aldine gives nearly double the amount of heat, on a smaller consumption of coal, than the plain open fire place used in another room of the same house. When in Altoona last winter I called at Mr. Kennedy's and examined it, and I like the Aldine better than any open fire place I ever saw. In building again would use no other.

Yours, etc.,
S. WILKINSON.

KANSAS CITY, MO., Jan. 6, '90.

Aldine Manufacturing Co.:

Gents—In October we had set in our library, an Aldine Fire Place, which has been in constant operation since that time. To say that we are satisfied with it fails to express our appreciation of its working. We heat the parlor adjoining the library, and from an additional register in the base board above, heat a sleeping room, which is always comfortable. Everybody is delighted with the Aldine, and I cheerfully endorse all you claim for it, as a method of ventilation, means of even circulation of heat, and an ornament to any home. Yours truly,

GEO. C. MOSHER,
1634 Summit St.

MILFORD, N. H., Jan. 9, '90.

Aldine Manufacturing Co.:

Gentlemen—I can safely say that I consider my experiment, in the purchase of the Aldine Grate, a success. It has the heating capacity of a first class coal stove. The constant circulation of air over so large a radiating surface changes the air from floor to ceiling, ventilating the apartment and keeping the floor warm. The ash dump removes the disagreeable feature of taking up the ashes, while the pleasant, steady heat and bright glow of an open fire (minus smoke and ashes) is a constant pleasure. Recommending it to all, I remain, Yours very truly,

MARY A. LULL, M. D.

EDWARD BELL, Builder of
Concrete Sidewalks and Asphalt Pavements.
ELGIN, ILL., Jan. 7, '90.

Aldine Manufacturing Co.:

Gentlemen—Being always accustomed to the use of a fire place, I find the Aldine the most perfect of any known to me. The two Aldine Fire Places I bought of you are splendid, as regards heating, economy of fuel and keeping the air pure in the house. There is health, comfort and satisfaction in having and using the Aldine. They please all who see them in use. Yours truly,

EDWARD BELL.

A. O. WILLIAMS, M. D., Physician and Surgeon.
OTTUMA, IA., Dec. 26, '89.

Aldine Manufacturing Co.:

Gents—The Aldine Fire Place you shipped me May 1st, 1889, has been duly received and properly placed, and I can say concerning the same, that it works to perfection. Without any doubt it is the best, the finest looking and most fuel saving grate now in the market. We have burned in same, wood, soft and hard coal, and find the heat equivalent to that of any stove, and much more desirable.

Very respectfully,
A. O. WILLIAMS, M. D.

DELHI, N. Y., Jan. 6, '90.

Aldine Manufacturing Co.:

Gentlemen—Yours at hand and contents fully noted. In reply I would say that the Aldine Fire-Place gives entire satisfaction. We are using it every day and it does all that I expected of it. I would fully recommend to all wishing a fire-place. I have tried wood and hard coal. It works equally well with both. Yours respectfully,

J. B. PEASTER.

SCANDIA, KAS., Jan. 1, '90

Aldine Manufacturing Co.:

Gentlemen—In answer to your esteemed favor of December 30, will say, the Aldine Fire-Place sent me last July is in place and gives the best of satisfaction. It is the most perfect room heater and ventilator I ever saw, and during our last cold blizzard we had a good chance to test its room heating properties and find it perfection.

Yours, C. W. GULICK.

THE ALDINE FIRE PLACE AND FACE PLATE, finished in Bright Copper, Antique Bronze and Brass, surrounded by Mantel, as above, in either Antique Oak, Walnut, Cherry, or Mahogany.

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